Printing date 10/23/2014

Reviewed on 10/23/2014

1 Identification

- Trade name: <u>RADNOR® CLEANER NUCLEAR GRADE</u>
- Article number: 64000212
- · MSDS Number: 209
- \cdot Relevant identified uses of the substance: DYE PENETRANT CLEANER
- Manufacturer/Supplier: ADDRESS :

RADNOR WELDING PRODUCTS 259 N. RADNOR-CHESTER ROAD SUITE 100 RADNOR, PA 19087-5283

- Information department: http://www.airgas.com/
- Emergency telephone number: 866-734-3438

2 Hazard(s) identificat	ion
· Classification of the sub	ostance or mixture:
GHS02 Flame	
Flam. Aerosol 1 H222-H2	229 Extremely flammable aerosol. Pressurized container: May burst if heated.
GHS08 Health h	hazard
Asp. Tox. 1 H304	May be fatal if swallowed and enters airways.
GHS07	
Eye Irrit. 2A H319	Causes serious eye irritation.
• GHS label elements	
The product is classified a • Signal word: Danger	and labeled according to the Globally Harmonized System (GHS).
Hazard-determining con	nponents of labeling:
 Distillates (petroleum), hy Hazard statements: 	drotreated light
Extremely flammable aero	osol. Pressurized container: May burst if heated.
May be fatal if swallowed	and enters airways.
• Precautionary statemen Keep away from heat/spa	ts: rks/open flames/hot surfaces No smoking.
Pressurized container: Do	not pierce or burn, even after use.
Wear protective gloves/pr	name or other ignition source. otective clothing/eve protection/face protection.
Wash thoroughly after har	ndling.
easy to do. Continue rinsi	ng.
If eye irritation persists: G	et medical advice/attention.
IF SWALLOWED: Immed	iately call a POISON CENTER/ doctor.
	(Contd. on page 2)

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® CLEANER NUCLEAR GRADE



3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
64742-47-8	Distillates (petroleum), hydrotreated light	30-60%
68476-86-8	Petroleum gases, liquefied, sweetened	10-<25%
67-63-0	propan-2-ol	10-<15%
67-64-1	acetone	≤10%
78-93-3	butanone	3.0-7.0%
108-65-6	2-methoxy-1-methylethyl acetate	1-<3%
• Additional information: Exact concentrations are being withheld as trade secrets.		

4 First-aid measures

• General information: Symptoms of poisoning may even occur after several hours.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact: Immediately rinse with water.

· After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists get medical advice/attention.

- After swallowing: Do not induce vomiting, Immediately call a poison center/ doctor.
- Most important symptoms and effects, both acute and delayed: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed: No further relevant information available.

(Contd. on page 3)

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® CLEANER NUCLEAR GRADE

(Contd. of page 2)

5 Fire-fighting measures

- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture: No further relevant information available.
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away.
 Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents
 Reference to other sections:
- See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

· Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. · Information about protection against explosions and fires: Do not spray on a naked flame or any incandescent material. Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use. · Storage · Requirements to be met by storerooms and receptacles: Store in a cool location. Observe official regulations on storing packagings with pressurized containers. · Information about storage in one common storage facility: Not required. · Further information about storage conditions: Keep receptacle tightly sealed. Do not gas tight seal receptacle. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.

• **Specific end use(s):** No further relevant information available.

(Contd. on page 4)

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® CLEANER NUCLEAR GRADE

(Contd. of page 3)

8 Ex	posure controls/personal protection
· Add	litional information about design of technical systems: No further data; see item 7.
· Cor	nponents with limit values that require monitoring at the workplace:
647	42-47-8 Distillates (petroleum), hydrotreated light
EL	Long-term value: 200 mg/m ³
67.0	
	Short term value: 400 ppm
EL	Long-term value: 200 ppm
ΕV	Short-term value: 400 ppm
	Long-term value: 200 ppm
67-6	64-1 acetone
EL	Short-term value: 500 ppm
	Long-term value: 250 ppm
EV	Short-term value: 750 ppm
	Long-term value: 500 ppm
78-9	J3-3 butanone
EL	Short-term value: 100 ppm
ΕV	Short-term value: 885 mg/m ³ 300 ppm
	Long-term value: 590 mg/m ³ , 200 ppm
108	-65-6 2-methoxy-1-methylethyl acetate
EL	Short-term value: 75 ppm
	Long-term value: 50 ppm
ΕV	Long-term value: 270 mg/m ³ , 50 ppm
· Add	litional information: The lists that were valid during the creation were used as basis.
· Per	sonal protective equipment
Kee	p away from foodstuffs, beverages and feed
Imm	nediately remove all soiled and contaminated clothing.
Was	sh hands before breaks and at the end of work.
Stor	e protective clothing separately.
Avo	id contact with the eyes and skin.
· Bre	atning equipment: Use suitable respiratory protective device in case of insufficient ventilation.
. 10	
	Protective gloves
The	glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
·Mat	erial of gloves:
BUty	le rubber, BR
initi	(Contd. on page 5)

= 5) — CA -

(Contd. of page 4)

Safety Data Sheet acc. to OSHA HCS & WHMIS

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® CLEANER NUCLEAR GRADE

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

· Form: · Color: · Odor:	Liquid Under Pressure Colorless Solvent-like
· Odour threshold:	Not determined.
· pH-value:	Not determined.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	-95.3 °C > 56 °C
· Flash point:	-104 °C (Prop. (-17 °C liq.))
· Flammability (solid, gaseous):	Extremely flammable liquefied gas.
· Ignition temperature:	210 °C
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
 Explosion limits Lower: Upper: 	0.5 Vol % 13.0 Vol %
· Vapor pressure at 20 °C:	233 hPa
 Density at 20 °C: Relative density: Vapour density at 20 °C: Evaporation rate: 	0.77 g/cm ³ Not determined. 4.6 (AIR=1) Not applicable.
 Solubility in / Miscibility with Water: 	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wate	er): Not determined.
 Viscosity: Dynamic: Kinematic: 	Not determined. Not determined.
 Solvent content: Organic solvents: 	33.3 %
	(Contd. on page 6)

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® CLEANER NUCLEAR GRADE

		(Contd.	of page 5)
· Other information	VOC Content: VOC %: HAP Content MIR Value	693.090 g/l >99 % 154.020 g/l 2.472 g O₃/g	

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects:
- · Acute toxicity
- Specific symptoms in biological assay: No further relevant information available.
- Primary irritant effect
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

- Harmful
- Irritant
- Carcinogenic.

The product can cause inheritable damage.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

67-63-0 propan-2-ol

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- Bioaccumulative potential: No further relevant information available.
- · Mobility in soil: No further relevant information available.
- · Additional ecological information
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

(Contd. on page 7)

CA

3

(Contd. of page 6)

Safety Data Sheet acc. to OSHA HCS & WHMIS

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® CLEANER NUCLEAR GRADE

Danger to drinking water if even extremely small quantities leak into the ground. • **Other adverse effects:** No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings

· Recommendation:

Place in a sealed container and label as waste. Place in a safe area, and comply with all federal, state, provincial and local regulations for disposal.

14 Transport information	
· UN-Number · DOT, TDG, IMDG, IATA	UN1950
 UN proper shipping name DOT TDG IMDG IATA 	Aerosols, flammable 1950 Aerosols AEROSOLS AEROSOLS, flammable
· Transport hazard class(es)	
 Class Label TDG (Transport dangerous goods): 	2.1 2.1
· Class · Label	2 5F Gases 2.1
· IMDG, IATA	
· Class · Label	2.1 2.1
	(Contd. on page a

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® CLEANER NUCLEAR GRADE

	(Contd. of page 7
 Packing group DOT, TDG, IMDG, IATA 	Not regulated
 Environmental hazards: Marine pollutant: 	No
 Special precautions for user: Danger code (Kemler): EMS Number: 	Warning: Gases - F-D,S-U
 Transport in bulk according to Annex MARPOL73/78 and the IBC Code: 	II of Not applicable.
· Transport/Additional information:	
 DOT Quantity limitations Remarks: 	On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity
	shipping requirements are met.
 TDG Excepted quantities (EQ) 	This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity shipping requirements are met. Code: E0 Not permitted as Excepted Quantity
· IMDG	
 Limited quantities (LQ) Excepted quantities (EQ) 	1L Code: E0 Not permitted as Excepted Quantity
· Remarks:	This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity shipping requirements are met.
· IATA · Remarks:	This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity shipping requirements are met.
· UN "Model Regulation":	UN1950, Aerosols, 2.1

15 F

·Remark	s:	Not permitted as Excepted Quantity This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity shipping requirements are met.
· IATA · Remark	s:	This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity shipping requirements are met.
· UN "Mo	del Regulation":	UN1950, Aerosols, 2.1
Safety, I Sara Section	health and environmental 355 (extremely hazardous	regulations/legislation specific for the substance or mixture substances):
None or		and listings)
67-63-0 78-93-3	propan-2-ol butanone	
· TSCA (T	oxic Substances Control	Act):
All ingre	dianta ara liatad	
-	alents are listed.	

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® CLEANER NUCLEAR GRADE

· Proposition 65	page 8)
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Carcinogenic categories	
· EPA (Environmental Protection Agency):	
67-64-1 acetone	
78-93-3 butanone	I
· TLV (Threshold Limit Value established by ACGIH):	
67-63-0 propan-2-ol	A4
67-64-1 acetone	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health):	
None of the ingredients is listed.	
· Canadian substance listings	
· Canadian Domestic Substances List (DSL):	
All ingredients are listed.	
· Canadian Ingredient Disclosure list (limit 0.1%):	
None of the ingredients is listed.	
· Canadian Ingredient Disclosure list (limit 1%):	
67-63-0 propan-2-ol	
67-64-1 acetone	
78-93-3 butanone	
• GHS label elements	
· Hazard pictograms	
GHS02 GHS07 GHS08	

· Signal word Danger

- Hazard-determining components of labeling: Distillates (petroleum), hydrotreated light
- Hazard statements
 Extremely flammable aerosol. Pressurized container: May burst if heated. Causes serious eye irritation.
 May be fatal if swallowed and enters airways.
 Precautionary statements
- Keep away from heat/sparks/open flames/hot surfaces. No smoking. Pressurized container: Do not pierce or burn, even after use.

(Contd. on page 10)

CA

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® CLEANER NUCLEAR GRADE

Do not spray on an open flame or other ignition source. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eve irritation persists: Get medical advice/attention. Do NOT induce vomiting. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container in accordance with local/regional/national/international regulations. · National regulations: Information about limitation of use: Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases. **16 Other information** The information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate

comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Product use and conditions of use are beyond our control. Warranty of materials is limited to test results of product performance as detailed in certificates of compliance. Interpretation of test results is the responsibility of end-user. No other warranties, expressed or implied, are made.

- · Department issuing MSDS: Product safety department
- Contact: Stephen Nowicki N/Av
- · Date of preparation / last revision 10/23/2014 / 2

 Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) Flam. Aerosol 1: Flammable aerosols, Hazard Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A Asp. Tox. 1: Aspiration hazard, Hazard Category 1 (Contd. of page 9)

Printing date 10/23/2014

Reviewed on 10/23/2014

1 Identification

- Trade name: <u>RADNOR® DEVELOPER NUCLEAR GRADE</u>
- Article number: 64000206
- · MSDS Number: 207
- Relevant identified uses of the substance: DYE PENETRANT DEVELOPER
- Manufacturer/Supplier: ADDRESS :

RADNOR WELDING PRODUCTS 259 N. RADNOR-CHESTER ROAD SUITE 100 RADNOR, PA 19087-5283

- · Information department: http://www.airgas.com/
- · Emergency telephone number: 866-734-3438

2 Hazard(s) identification

Classification of the substance or mixture:



Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.

GHS07

Eye Irrit. 2AH319Causes serious eye irritation.

- STOT SE 3 H336 May cause drowsiness or dizziness.
- · Label elements
- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Signal word: Danger
- · Hazard statements:

Extremely flammable aerosol. Pressurized container: May burst if heated.

Causes serious eye irritation.

May cause drowsiness or dizziness.

· Precautionary statements:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Pressurized container: Do not pierce or burn, even after use.

Do not spray on an open flame or other ignition source.

- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If eye irritation persists: Get medical advice/attention.

Call a POISON CENTER/doctor if you feel unwell.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® DEVELOPER NUCLEAR GRADE

(Contd. of page 1) • WHMIS-symbols: A - Compressed gas B5 - Flammable aerosol D2A - Very toxic material causing other toxic effects • NFPA ratings (scale 0 - 4): 40Health = 2 Fire = 4 Reactivity = 0

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous	Dangerous components:		
67-64-1	acetone	30-60%	
68476-86-8	Petroleum gases, liquefied, sweetened	25-40%	
14808-60-7	Quartz (SiO2)	0.3-<1%	
	· · · · · · · · · · · ·		

· Additional information: Exact concentrations are being withheld as trade secrets.

4 First-aid measures

· After inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists get medical advice/attention.
- After swallowing: If symptoms persist consult doctor.
- Most important symptoms and effects, both acute and delayed: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire-fighting measures

- · Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture: No further relevant information available.
- Protective equipment: No special measures required.

(Contd. on page 3)

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® DEVELOPER NUCLEAR GRADE

(Contd. of page 2)

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away.
 Environmental precautions: Do not allow product to reach sewage system or any water course.
- Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13.
 Ensure adequate ventilation.
 Do not flush with water or aqueous cleansing agents
 Reference to other sections:
- See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

- · Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. · Information about protection against explosions and fires: Do not spray on a naked flame or any incandescent material. Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use. Storage · Requirements to be met by storerooms and receptacles: Store in a cool location. Observe official regulations on storing packagings with pressurized containers. Information about storage in one common storage facility: Not required. · Further information about storage conditions: Keep receptacle tightly sealed. Do not gas tight seal receptacle. Store in cool, dry conditions in well sealed receptacles.
 - Protect from heat and direct sunlight.
 - Specific end use(s): No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Components with limit values that require monitoring at the workplace:

67-64-1 acetone

EL Short-term value: 500 ppm

Long-term value: 250 ppm

EV Short-term value: 750 ppm

Long-term value: 500 ppm

(Contd. on page 4)

CA -

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® DEVELOPER NUCLEAR GRADE

(Contd. of page 3) Additional information: The lists that were valid during the creation were used as basis. Personal protective equipment General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin. Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation.
Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. • Material of gloves: Butyl rubber, BR Nitrile rubber, NBR • Eye protection:
Tightly sealed goggles

Form:	Liquid Under Pressure
Color:	Cloudy
Odor:	Mild
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	-95.3 °C
Boiling point/Boiling range:	> 56 °C
Flash point:	-104 °C (Prop. (-17 °C Liq.))
Flammability (solid, gaseous):	Extremely flammable liquefied gas.
Ignition temperature:	465 °C
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive ail vapor mixtures are possible.
Explosion limits	
Lower:	2.6 Vol %
Upper:	13.0 Vol %

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® DEVELOPER NUCLEAR GRADE

		(Contd. of page 4)
· Vapor pressure at 20 °C:	233 hPa	
 Density at 20 °C: Relative density: Vapour density at 20 °C: Evaporation rate at 20 °C: 	0.715 g/cm ³ Not determined. 2.0 (AIR=1) >5.7 (BA=1)	
 Solubility in / Miscibility with Water: 	Emulsifiable.	
· Partition coefficient (n-octanol/wa	ter): Not determined.	
 Viscosity: Dynamic: Kinematic: 	Not determined. Not determined.	
 Solvent content: Organic solvents: 	54.5 %	
Solids content: • Other information	9.1 % VOC Content: 259.994 g/ VOC %: 37% HAP Content: None MIR Value: 0.588 g O/ Heat of Combustion: 31.592 M.	/l ₂/g J/kg

10 Stability and reactivity

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects:

- · Acute toxicity
- · LD/LC50 values that are relevant for classification:

67-64-1 acetone

Oral LD50 5800 mg/kg (rat)

Dermal LD50 20000 mg/kg (rabbit)

- · Primary irritant effect
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

Carcinogenic.

(Contd. on page 6)

[—] CA

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® DEVELOPER NUCLEAR GRADE

(Contd. of page 5) The product can cause inheritable damage.				
· Carcinogen	· Carcinogenic categories			
· IARC (International Agency for Research on Cancer)				
7631-86-9	silicon dioxide, chemically prepared	3		
14808-60-7	Quartz (SiO2)	1		
71-43-2	benzene	1		
· NTP (National Toxicology Program)				
14808-60-7	Quartz (SiO2)	K		
71-43-2	benzene	K		
· OSHA-Ca (Occupational Safety & Health Administration)				
71-43-2 ber	71-43-2 benzene			

12 Ecological information

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- **Bioaccumulative potential:** No further relevant information available.
- Mobility in soil: No further relevant information available.
- · Additional ecological information
- · General notes:
- Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

• Other adverse effects: No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings

· Recommendation:

Place in a sealed container and label as waste. Place in a safe area, and comply with all federal, state, provincial and local regulations for disposal.

· UN-Number		
· DOT, TDG, IMDG, IATA	UN1950	
· UN proper shipping name		
DOT	Aerosols, flammable	
· TDG	1950 Aerosols	
·IMDG	AEROSOLS	
	AEROSOLS, flammable	

CA

Safety Data Sheet acc. to OSHA HCS & WHMIS

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® DEVELOPER NUCLEAR GRADE

	(Contd. of page
 Transport hazard class(es) 	
· DOT	
PLANE E CAL	
	21
· Label	2.1
 TDG (Transport dangerous goods): 	
2	
· Class	2 5F Gases
· Label	2.1
· IMDG, IATA	
A	
2	
Class	2.1
· Label	2.1
· Packing group	
DOT, TĎĞ, IMĎG, IATA	Not regulated
· Environmental hazards:	
· Marine pollutant:	No
Special precautions for user:	Warning: Gases
Danger code (Kemier): EMS Number:	- F-D S-U
Transport in bulk according to Append	
MARPOL73/78 and the IBC Code:	Not applicable.
· Transport/Additional information:	
DOT	
· Quantity limitations	On passenger aircraft/rail: 75 kg
	On cargo aircraft only: 150 kg
· Remarks:	This product may be shipped according to the Limited
	shipping requirements are met
	This product may be shipped according to the Limite
	Quantity Exceptions provided that all Limited Quantit
	shipping requirements are met.
 Excepted quantities (EQ) 	Code: E0
	INOT permitted as Excepted Quantity
· IMDG	11
· Limited quantities (LQ)	IL

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® DEVELOPER NUCLEAR GRADE

	(Contd. of page 7)
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· Remarks:	This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity shipping requirements are met.
· IATA	
· Remarks:	This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity shipping requirements are met.
· UN "Model Regulation":	UN1950, Aerosols, 2.1

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):			
None of the ingredients is listed.			
Section 313 (Specific toxic chemical listings):			
71-43-2 benzene			
· TSCA (Toxic Substances Control Act):			
All ingredients are listed.			
· Proposition 65			
· Chemicals known to cause cancer:			
14808-60-7 Quartz (SiO2)			
71-43-2 benzene			
Chemicals known to cause reproductive toxicity for females:			
None of the ingredients is listed.			
· Chemicals known to cause reproductive toxicity for males:			
71-43-2 benzene			
Chemicals known to cause developmental toxicity:			
71-43-2 benzene			
· Carcinogenic categories			
· EPA (Environmental Protection Agency):			
67-64-1 acetone			
71-43-2 benzene A, K/L			
· TLV (Threshold Limit Value established by ACGIH):			
67-64-1 acetone A4			
14808-60-7 Quartz (SiO2) A2			
71-43-2 benzene A1			
· NIOSH-Ca (National Institute for Occupational Safety and Health):			
14808-60-7 Quartz (SiO2)			
71-43-2 benzene			
(Contd. on page 9)			

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® DEVELOPER NUCLEAR GRADE

(Contd. of page 8)

•	Canadian	substance	listings
_			

 \cdot Canadian Domestic Substances List (DSL):

All ingredients are listed.

· Canadian Ingredient Disclosure list (limit 0.1%):

None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 1%):

67-64-1 acetone

7631-86-9 silicon dioxide, chemically prepared

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



Signal word Danger

· Hazard statements

Extremely flammable aerosol. Pressurized container: May burst if heated. Causes serious eve irritation.

May cause drowsiness or dizziness.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Pressurized container: Do not pierce or burn, even after use.

Do not spray on an open flame or other ignition source.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If eye irritation persists: Get medical advice/attention.

Call a POISON CENTER/doctor if you feel unwell.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

16 Other information

(Contd. on page 10)

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® DEVELOPER NUCLEAR GRADE

(Contd. of page 9) The information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Product use and conditions of use are beyond our control. Warranty of materials is limited to test results of product performance as detailed in certificates of compliance. Interpretation of test results is the responsibility of end-user. No other warranties, expressed or implied, are made.
Department issuing MSDS: Product safety department
· Contact:
Stephen Nowicki
N/Av
Date of preparation / last revision 10/23/2014 / 2
· Abbreviations and acronyms:
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
FINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
VHIVIS: Workplace Hazardous Materials information System (Canada)
LD50: Lethal dose, 50 percent
Flam. Aerosol 1: Flammable aerosols, Hazard Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
SICI SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Printing date 10/23/2014

Reviewed on 10/23/2014

1 Identification

- Trade name: <u>RADNOR® PENETRANT SOLVENT REMOVABLE</u>
- · Article number: 64000200
- · MSDS Number: 205
- \cdot Relevant identified uses of the substance: <code>INSPECTION DYE</code>
- Manufacturer/Supplier: ADDRESS :

RADNOR WELDING PRODUCTS 259 N. RADNOR-CHESTER ROAD SUITE 100 RADNOR, PA 19087-5283

Information department: http://www.airgas.com/

• Emergency telephone number: 866-734-3438

2 Hazard(s) identification				
Classification o	f the substa	ince or mixture:		
GHS02	2 Flame			
Flam. Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurized container: May burst if heated.		
GHS08	3 Health haza	ard		
Carc. 2	H351	Suspected of causing cancer.		
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.		
GHS label elem The product is cl Signal word: Da	ents assified and anger	labeled according to the Globally Harmonized System (GHS).		
Signal word: Da Hazard-determi	anger ning compo	ments of labeling:		
Solvent naphtha	(petroleum),	heavy arom.		
C.I. SOLVENT R	RED 164			
Hazard statements: Extremely flammable aerosol. Pressurized container: May burst if heated.				
Harmful if swallowed. Suspected of causing cancer.				
May be fatal if swallowed and enters airways. • Precautionary statements: Keep away from heat/sparks/open flames/hot surfaces No smoking. Pressurized container: Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source.				
			Wear protective gloves / eye protection / face protection.	
			in a long dig ing	

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® PENETRANT SOLVENT REMOVABLE



3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:			
64742-94-5	Solvent naphtha (petroleum), heavy arom.	40-70%	
68476-85-7	Petroleum gases, liquefied	25-30%	
91-20-3	naphthalene	3-5%	
112-34-5	2-(2-butoxyethoxy)ethanol	3-5%	
98-82-8	cumene	1-1.5%	
95-63-6	1,2,4-trimethylbenzene	1-1.5%	
71819-51-7	C.I. SOLVENT RED 164	0.3-<1%	
· Additional information: Exact concentrations are being withheld as trade secrets.			

4 First-aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Rinse mouth, do not induce vomiting, Immediately call a poison center / doctor.
- Most important symptoms and effects, both acute and delayed: No further relevant information available.

(Contd. on page 3)

CA

(Contd. of page 2)

Safety Data Sheet acc. to OSHA HCS & WHMIS

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® PENETRANT SOLVENT REMOVABLE

• Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire-fighting measures

- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture: No further relevant information available.
- Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away.
 Environmental precautions:
- Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13.
 Ensure adequate ventilation.
 Do not flush with water or aqueous cleansing agents
- **Reference to other sections:** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

· Precautions for safe handling:
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Information about protection against explosions and fires:
Do not spray on a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e.
electric lights. Do not pierce or burn, even after use.
· Storage
· Requirements to be met by storerooms and receptacles:
Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.
Information about storage in one common storage facility: Not required.
Further information about storage conditions:
Keep receptacle tightly sealed.
Do not gas tight seal receptacle.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight

· Specific end use(s): No further relevant information available.

(Contd. on page 4)

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® PENETRANT SOLVENT REMOVABLE

(Contd. of page 3)

8 Exposure controls/personal protection		
· Additional information about design of technical systems: No further data; see item 7.		
Components with limit values that require monitoring at the workplace:		
68476-85-7 Petroleum gases, liquefied		
EL Short-term value: 1250 ppm Long-term value: 1000 ppm		
91-20-3 naphthalene		
EL Short-term value: 15 ppm Long-term value: 10 ppm Skin; IARC 2B		
EV Short-term value: 78 mg/m ³ , 15 ppm Long-term value: 52 mg/m ³ , 10 ppm		
98-82-8 cumene		
EL Short-term value: 75 ppm Long-term value: 25 ppm IARC 2B		
EV Long-term value: 245 mg/m ³ , 50 ppm Skin		
 Wash hands before breaks and at the end of work. Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation. Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Material of gloves: Butyl rubber, BR Nitrile rubber, NBR Eye protection: Tightly sealed goggles 		
9 Physical and chemical properties	uid Under Pressure	
Odor: Arc Odour threshold: No	bracic t determined.	
· pH-value: No	t determined.	
	(Contd. on page 5)	

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® PENETRANT SOLVENT REMOVABLE

	(Contd. of page 4)		
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	-68.3 °C 132 °C		
· Flash point:	-104 °C (Prop. (28.3°C liq.))		
· Flammability (solid, gaseous):	Extremely flammable liquefied gas.		
· Ignition temperature:	227.8 °C		
· Decomposition temperature:	Not determined.		
· Auto igniting:	Product is not selfigniting.		
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.		
 Explosion limits Lower: Upper: 	.85 Vol % 24.6 Vol %		
· Vapor pressure at 20 °C:	70 psig		
 Density at 20 °C: Relative density: Vapour density at 20 °C: Evaporation rate: 	0.775 g/cm ³ Not determined. 5.58 (AIR=1) Not applicable.		
 Solubility in / Miscibility with Water: 	Not miscible or difficult to mix.		
· Partition coefficient (n-octanol/wate	er): Not determined.		
 Viscosity: Dynamic: Kinematic: 	Not determined. Not determined.		
 Solvent content: Organic solvents: Other information 	6.9 % VOC Content: 763.954 g/l VOC %: 99% (Wt) HAP Content: 6.133 g/l MIR Value: 5.946 g O₃/g		

10 Stability and reactivity

 \cdot Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 6)

CA

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® PENETRANT SOLVENT REMOVABLE

(Contd. of page 5)

1 Toxicological information Information on toxicological effects: Acute toxicity 			
· LD/LC50	values tha	it are relevant for classification:	
91-20-3 na	aphthalen	e	
Oral	LD50	490 mg/kg (rat)	
Dermal	LD50	5000 mg/kg (rat)	
98-82-8 ci	umene		
Oral	LD50	1400 mg/kg (rat)	
Dermal	LD50	12300 mg/kg (rabbit)	
Inhalative	LC50/4 h	24.7 mg/l (mouse)	
95-63-6 1,	2,4-trimet	hylbenzene	
Oral	LD50	5000 mg/kg (rat)	
 on the eye: No irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: 			
· Carcinogenic categories			
· · · · · · · · · · · · · · · · · · ·	· IARC (International Agency for Research on Cancer)		
· IARC (Inte			
• IARC (Inte 91-20-3 n	aphthalene	e 28	
• IARC (Inte 91-20-3 n • NTP (Nati	aphthalene	e 2B	
• IARC (Inte 91-20-3 n • NTP (Nati 91-20-3 n	aphthalene onal Toxic aphthalene	e 2B cology Program) e R	
· IARC (Internet view) 91-20-3 n · NTP (Nati 91-20-3 n · OSHA-Ca	onal Toxic aphthalene aphthalene	e 2B cology Program) e R ional Safety & Health Administration)	
• IARC (International of the second se	aphthalen onal Toxic aphthalenc (Occupat e ingredie	e 2B cology Program) e R ional Safety & Health Administration) nts is listed.	

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- **Bioaccumulative potential:** No further relevant information available.
- Mobility in soil: No further relevant information available.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information
- · General notes:

Also poisonous for fish and plankton in water bodies.

- Toxic for aquatic organisms
- Water hazard class 2 (Self-assessment): hazardous for water
- Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

(Contd. on page 7)

CA

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® PENETRANT SOLVENT REMOVABLE

• Other adverse effects: No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings
- · Recommendation:

Place in a sealed container and label as waste. Place in a safe area, and comply with all federal, state, provincial and local regulations for disposal.

UN1950
Aerosols, flammable 1950 Aerosols AEROSOLS AEROSOLS, flammable
2.1 2.1
2 5F Gases
2.1
2.1 2.1
Not regulated

(Contd. of page 6)

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® PENETRANT SOLVENT REMOVABLE

	(Contd. of page 7)
 Environmental hazards: Marine pollutant: Special marking (TDG): 	Yes Symbol (fish and tree)
 Special precautions for user: Danger code (Kemler): EMS Number: 	Warning: Gases - F-D,S-U
Transport in bulk according to Annex MARPOL73/78 and the IBC Code:	II of Not applicable.
· Transport/Additional information:	
 DOT Quantity limitations Remarks: 	On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity shipping requirements are met.
 TDG Excepted quantities (EQ) 	This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity shipping requirements are met. Code: E0 Not permitted as Excepted Quantity
 IMDG Limited quantities (LQ) Excepted quantities (EQ) Remarks: 	1L Code: E0 Not permitted as Excepted Quantity This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity shipping requirements are met.
· IATA · Remarks:	This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity shipping requirements are met.
· UN "Model Regulation":	UN1950, Aerosols, 2.1

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

Section 355 (extremely hazardous substances):
 None of the ingredients is listed.

 Section 313 (Specific toxic chemical listings):
 91-20-3 naphthalene
 98-82-8 cumene
 95-63-6 1,2,4-trimethylbenzene

 TSCA (Toxic Substances Control Act):
 All ingredients are listed.

 (Contd. on page 9)
 CA-

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® PENETRANT SOLVENT REMOVABLE

(Contd. of page 8)
· Chemicals known to cause cancer:
91-20-3 naphthalene
98-82-8 cumene
· Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed
Chemicala known to cause reproductive toxicity for malacy
Chemicals known to cause reproductive toxicity for males:
Chemicals known to cause developmental toxicity:
None of the ingredients is listed.
· Carcinogenic categories
· EPA (Environmental Protection Agency):
91-20-3 naphthalene C, CBD
98-82-8 cumene D, CBD
TLV (Threshold Limit Value established by ACGIH):
91-20-3 naphthalene
NIOSH-Ca (National Institute for Occupational Safety and Health):
None of the ingredients is listed.
· Canadian substance listings
· Canadian Domestic Substances List (DSL):
All ingredients are listed.
Canadian Ingredient Disclosure list (limit 0.1%):
95-63-6 1.2.4-trimethylbenzene
Canadian Ingredient Disclosure list (limit 1%):
91-20-3 nanhthalene
112-34-5 2-(2-butoxyethoxy)ethanol
98-82-8 cumene
· GHS label elements
The product is classified and labeled according to the Globally Harmonized System (GHS).
· Hazard pictograms
GHS02 GHS07 GHS08
· Signal word Danger
Hazard-determining components of labeling: Solvent naphtha (petroleum), heavy arom. naphthalene CL SOLVENT RED 164
· Hazard statements
Extremely flammable aerosol. Pressurized container: May burst if heated. Harmful if swallowed. Suspected of causing cancer.

May be fatal if swallowed and enters airways.

(Contd. on page 10)

CA

Printing date 10/23/2014

Reviewed on 10/23/2014

Trade name: RADNOR® PENETRANT SOLVENT REMOVABLE

(Contd. of page 9) Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Pressurized container: Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Wear protective gloves / eve protection / face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/attention. Rinse mouth. Do NOT induce vomiting. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container in accordance with local/regional/national/international regulations.

16 Other information

The information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Product use and conditions of use are beyond our control. Warranty of materials is limited to test results of product performance as detailed in certificates of compliance. Interpretation of test results is the responsibility of end-user. No other warranties, expressed or implied, are made.

- · Department issuing MSDS: Product safety department
- **Contact:** Stephen Nowicki N/Av
- Date of preparation / last revision 10/23/2014 / 1

· Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Flam. Aerosol 1: Flammable aerosols, Hazard Category 1 Acute Tox. 4: Acute toxicity, Hazard Category 4 Carc. 2: Carcinogenicity, Hazard Category 2 Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision Date: 05/02/2014

Version: 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product Identifier

Product Form: Mixture

Product Name: Radnor Paint Pen - All Colors

Synonyms: White Part# 64002406, Yellow Part# 64002407, Black Part# 64002408, Red Part# 64002409, Light Blue Part# 64002410, Green Part# 64002411, Orange Part# 64002398, White Carded 64002391, Purple Part # 64002415, Pink Part # 64002416

Intended Use of the Product No additional information available

Name, Address, and Telephone of the Responsible Party

Radnor Products

259 N. Radnor-Chester Rd.

Radnor, PA 19087-5283

Emergency telephone number: ChemTrec (800) 424-9300 Canada only: CANUTEC (Call collect) (613) 996-6666

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Flam. Liq. 3	H226
Skin Irrit. 2	H315
Muta. 1B	H340
Carc. 1B	H350
Repr. 2	H361
STOT SE 3	H336
STOT RE 2	H373
Asp. Tox. 1	H304
Aquatic Acute 1	H400
Aquatic Chronic 2	H411

Label Elements

GHS-US Labeling

	•	
Hazard	Pictograms	(GHS-US)

	GHS02	GHS07	GHS08	GHS09	
Signal Word (GHS-US)	: Danger				
Hazard Statements (GHS-US)	: H226 - Flamr H304 - May b H315 - Cause H336 - May c H340 - May c H350 - May c	nable liquid and v be fatal if swallow is skin irritation cause drowsiness cause genetic defe cause cancer	apor ed and enters a or dizziness ects	irways	
	H361 - Suspected of damaging fertility of the unborn child H373 - May cause damage to organs through prolonged or repeated exposure H400 - Very toxic to aquatic life H411 - Toxic to aquatic life with long lasting effects				
05/02/2014	EN (English US)				

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Precautionary Statements (GHS-US)	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, sparks, open flames, hot surfaces No smoking. P233 - Keep container tightly closed. P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical, ventilating, and lighting equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P260 - Do not breathe vapors, mist, spray. P264 - Wash hands, forearms, and other exposed areas thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves, protective clothing, eye protection, face protection, respiratory protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P303+P31 - If exposed or concerned: Get medical advice/attention. P314 - Secific treatment (see section 4). P331 - If skin irritation occurs: Get medical advice/attention. P332+P313 - If skin irritation occurs: Get medical advice/attention. P332+P313 - If skin irritation occurs: Get medical advice/attention. P332+P31 - If skin irritation occurs: Get medical advice/attention. P332+P33 - Ir case off ire: Use appropriate media for extinction. P332 - F38 - In case of fire: Use appropriate media for extinction. P332 - Store in a well-ventilated place. Keep container tighty closed. P403+P235 - Store in a well-ventilated place. Keep container tighty closed. P403+P235 - Store in a well-ventilated place. Keep cool. P403+P235 - Store
	P501 - Dispose of contents/container to local, regional, national, territorial, provincial, and international regulations.

Other Hazards

Other Hazards Not Contributing to the Classification: Flammable vapors can accumulate in head space of closed systems. Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Inhalation of dusts and fumes can cause metal fume fever. Symptoms can include a metallic or sweet taste in the mouth, sweating, shivering, headache, throat irritation, fever, chills, thirstiness, muscle aches, nausea, vomiting, weakness, fatigue, and shortness of breath.

Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Substances</u>

<u>Mixture</u>

Name	Product identifier	% (w/w)	Classification (GHS-US)
Solvent naphtha, petroleum, medium aliohatic	(CAS No) 64742-88-7	30 - 35	Flam. Liq. 3, H226 Skin Irrit, 2, H315
			STOT SE 3, H336
			Asp. Tox. 1, H304
			Aquatic Acute 3, H402
			Aquatic Chronic 2, H411
Titanium dioxide	(CAS No) 13463-67-7	20 - 25	Comb. Dust

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Copper	(CAS No) 7440-50-8	20 - 25	Aquatic Acute 1, H400
			Aquatic Chronic 3, H412
Aluminum	(CAS No) 7429-90-5	10 - 15	Comb. Dust
			Flam. Sol. 1, H228
			Water-react. 2, H261
			Aquatic Acute 1, H400
Solvent naphtha, petroleum, light aliphatic	(CAS No) 64742-89-8	10 - 15	Flam. Liq. 1, H224
			Skin Irrit. 2, H315
			Muta. 1B, H340
			Carc. 1B, H350
			Repr. 2, H361
			STOT SE 3, H336
			Asp. Tox. 1, H304
			Aquatic Acute 2, H401
			Aquatic Chronic 2, H411
Butanamide, 2,2'-[(3,3'-dimethoxy[1,1'-	(CAS No) 6505-28-8	5 - 10	Comb. Dust
biphenyl]-4,4'-diyl)bis(azo)]bis[3-oxo-N-			
phenyl-			
C.I. Pigment Blue 15	(CAS No) 147-14-8	5 - 10	Not classified
Butanamide, 2,2'-[(3,3'-dichloro[1,1'-	(CAS No) 5468-75-7	1 - 5	Comb. Dust
biphenyl]-4,4'-diyl)bis(azo)]bis[N-(2-			
methylphenyl)-3-oxo-			
Xylenes (o-, m-, p- isomers)	(CAS No) 1330-20-7	1 - 5	Flam. Liq. 3, H226
			Acute Tox. 4 (Dermal), H312
			Acute Tox. 4 (Inhalation:vapour), H332
			Skin Irrit. 2, H315
			Eye Irrit. 2A, H319
			STOT SE 3, H335
			STOT RE 2, H373
			Asp. Tox. 1, H304
			Aquatic Acute 2, H401
Limestone	(CAS No) 1317-65-3	1 - 5	Not classified
Carbon black	(CAS No) 1333-86-4	1 - 5	Carc. 2, H351
Petroleum distillates, hydrotreated light	(CAS No) 64742-47-8	1 - 5	Flam. Liq. 3, H226
			Skin Irrit. 2, H315
			STOT SE 3, H336
			Asp. Tox. 1, H304
			Aquatic Acute 2, H401
			Aquatic Chronic 2, H411
Zinc	(CAS No) 7440-66-6	1 - 5	Comb. Dust
			Aquatic Acute 1, H400
			Aquatic Chronic 1, H410
C.I. Pigment Green 7	(CAS No) 1328-53-6	1 - 5	Comb. Dust
	· · ·		

Full text of H-phrases: see section 16 SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If exposed or concerned: Get medical advice/attention.

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms and Effects Both Acute and Delayed

General: May cause cancer. Causes damage to organs. May cause genetic defects. Suspected of damaging fertility or the unborn child. Causes skin irritation. May cause drowsiness and dizziness. May be fatal if swallowed and enters airways.

Inhalation: May cause drowsiness or dizziness.

Skin Contact: Causes skin irritation.

Eye Contact: May cause eye irritation.

Ingestion: May be fatal if swallowed and enters airways. Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: Not available

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Foam, dry chemical, carbon dioxide.

Unsuitable Extinguishing Media: Do not use extinguishing media containing water.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Flammable liquid and vapor.

Explosion Hazard: May form flammable/explosive vapor-air mixture.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Nitrogen oxides. Sulfur oxides. Oxides of titanium. May liberate toxic gases. Hydrocarbons. Oxides of aluminum. Oxides of copper. Oxides of zinc.

Other information: Do not allow run-off from fire fighting to enter drains or water courses. Do not allow the product to be released into the environment.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid breathing (vapors, mist, spray). Use only outdoors or in a well-ventilated area. Do not allow product to spread into the environment. Avoid all contact with skin, eyes, or clothing.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Collect spillage. Absorb and/or contain spill with inert material, then place in suitable container. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools. Contact competent authorities after a spill.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable. When heated to decomposition, emits toxic fumes. Use only non-sparking tools. Inhalation of fumes may cause metal fume fever.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Wash hands and forearms thoroughly after handling.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Comply with applicable regulations. **Storage Conditions:** Store in a well-ventilated place. Keep container tightly closed. Keep/Store away from extremely high or low temperatures, ignition sources, combustible materials, incompatible materials.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. Water. Halogenated compounds.

Specific End Use(s) Not available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Xylenes (o-, m-, p- isomers)	(1330-20-7)	
Mexico	OEL TWA (mg/m³)	435 mg/m ³
Mexico	OEL TWA (ppm)	100 ppm
Mexico	OEL STEL (mg/m³)	655 mg/m³
Mexico	OEL STEL (ppm)	150 ppm
USA ACGIH	ACGIH TWA (ppm)	100 ppm
USA ACGIH	ACGIH STEL (ppm)	150 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	435 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm
Alberta	OEL STEL (mg/m³)	651 mg/m³
Alberta	OEL STEL (ppm)	150 ppm
Alberta	OEL TWA (mg/m³)	434 mg/m ³
Alberta	OEL TWA (ppm)	100 ppm
British Columbia	OEL STEL (ppm)	150 ppm
British Columbia	OEL TWA (ppm)	100 ppm
Manitoba	OEL STEL (ppm)	150 ppm
Manitoba	OEL TWA (ppm)	100 ppm
New Brunswick	OEL STEL (mg/m³)	651 mg/m³
New Brunswick	OEL STEL (ppm)	150 ppm
New Brunswick	OEL TWA (mg/m³)	434 mg/m ³
New Brunswick	OEL TWA (ppm)	100 ppm
Newfoundland & Labrador	OEL STEL (ppm)	150 ppm
Newfoundland & Labrador	OEL TWA (ppm)	100 ppm
Nova Scotia	OEL STEL (ppm)	150 ppm
Nova Scotia	OEL TWA (ppm)	100 ppm
Nunavut	OEL STEL (mg/m³)	652 mg/m ³
Nunavut	OEL STEL (ppm)	150 ppm
Nunavut	OEL TWA (mg/m³)	434 mg/m ³
Nunavut	OEL TWA (ppm)	100 ppm
Northwest Territories	OEL STEL (mg/m³)	652 mg/m³
Northwest Territories	OEL STEL (ppm)	150 ppm
Northwest Territories	OEL TWA (mg/m³)	434 mg/m ³

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Northwest Territories	OEL TWA (ppm)	100 ppm		
Ontario OEL STEL (ppm)		150 ppm		
Ontario	OEL TWA (ppm)	100 ppm		
Prince Edward Island	OEL STEL (ppm)	150 ppm		
Prince Edward Island	OEL TWA (ppm)	100 ppm		
Ouébec	VECD (mg/m ³)	651 mg/m ³		
Québec	VECD (ppm)	150 ppm		
Québec	VEMP (mg/m ³)	434 mg/m ³		
Ouébec	VEMP (ppm)	100 ppm		
Saskatchewan	OFL STEL (ppm)	150 ppm		
Saskatchewan	OFL TWA (ppm)	100 ppm		
Yukon	OFL STEL (mg/m^3)	650 mg/m ³		
Yukon	OFL STEL (npm)	150 npm		
Yukon	OFL TWA (mg/m^3)	435 mg/m ³		
Yukon		100 ppm		
Titanium dioxide (13463-67		40 4 3		
Mexico	OEL IWA (mg/m ³)	10 mg/m ³		
	OEL STEL (mg/m ³)	20 mg/m ³		
	ACGIH TWA (mg/m²)	10 mg/m ²		
USA USHA	USHA PEL (TWA) (mg/m ²)	15 mg/m ²		
		5000 mg/m ²		
Alberta	OEL TWA (mg/m²)	10 mg/m ³		
British Columbia	OEL IWA (mg/m²)	3 mg/m ²		
Manitoba	OEL TWA (mg/m ³)	10 mg/m ³		
New Brunswick	OEL IWA (mg/m ³)	10 mg/m ³		
Newfoundland & Labrador	OEL TWA (mg/m ³)	10 mg/m ³		
Nova Scotia	OEL TWA (mg/m ³)	10 mg/m ³		
Nunavut	OEL TWA (mg/m³)	10 mg/m ³ (total mass)		
Northwest Territories	OEL TWA (mg/m³)	10 mg/m ³ (total mass)		
Ontario	OEL TWA (mg/m ³)	10 mg/m ³		
Prince Edward Island	OEL TWA (mg/m ³)	10 mg/m ³		
Québec	VEMP (mg/m ³)	10 mg/m ³ (containing no Asbestos and <1% Crystalline silica)		
Saskatchewan	OEL STEL (mg/m ³)	20 mg/m ³		
Saskatchewan	OEL TWA (mg/m³)	10 mg/m ³		
Yukon	OEL STEL (mg/m ³)	20 mg/m ³		
Yukon	OEL TWA (mg/m³)	10 mg/m ³		
Limestone (1317-65-3)				
Mexico	OEL TWA (mg/m ³)	10 mg/m ³		
Mexico	OEL STEL (mg/m ³)	20 mg/m ³		
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³		
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	5 mg/m ³		
Alberta	OEL TWA (mg/m ³)	10 mg/m ³		
British Columbia	OEL STEL (mg/m ³)	20 mg/m ³		
British Columbia	OEL TWA (mg/m ³)	3 mg/m ³		
New Brunswick	OEL TWA (mg/m ³)	10 mg/m ³		
Nunavut	OEL TWA (mg/m ³)	10 mg/m ³ (total mass)		
Northwest Territories	OEL TWA (mg/m ³)	10 mg/m ³ (total mass)		
Québec	VEMP (mg/m ³)	10 mg/m ³ (Limestone, containing no Asbestos and <1%		
		Crystalline silica)		

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	-			
Saskatchewan	OEL STEL (mg/m ³)	20 mg/m ³		
Saskatchewan	OEL TWA (mg/m³)	10 mg/m³		
Yukon	OEL STEL (mg/m ³)	20 mg/m ³		
Yukon OEL TWA (mg/m³)		10 mg/m ³		
Carbon black (1333-86-4)				
Mexico	OEL TWA (mg/m ³)	3.5 mg/m ³		
Mexico	OEL STEL (mg/m ³)	7 mg/m ³		
USA ACGIH	ACGIH TWA (mg/m ³)	3 mg/m ³		
USA OSHA	OSHA PEL (TWA) (mg/m³)	3.5 mg/m ³		
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	0.1 mg/m ³ (Carbon black in presence of Polycyclic aromatic		
		hydrocarbons)		
USA IDLH	US IDLH (mg/m ³)	1750 mg/m³		
Alberta	OEL TWA (mg/m³)	3.5 mg/m ³		
British Columbia	OEL TWA (mg/m³)	3 mg/m ³		
Manitoba	OEL TWA (mg/m³)	3 mg/m ³		
New Brunswick	OEL TWA (mg/m³)	3.5 mg/m ³		
Newfoundland & Labrador	OEL TWA (mg/m³)	3 mg/m ³		
Nova Scotia	OEL TWA (mg/m³)	3 mg/m ³		
Nunavut	OEL STEL (mg/m ³)	7 mg/m³		
Nunavut	OEL TWA (mg/m³)	3.5 mg/m ³		
Northwest Territories	OEL STEL (mg/m³)	7 mg/m ³		
Northwest Territories	OEL TWA (mg/m³)	3.5 mg/m ³		
Ontario	OEL TWA (mg/m³)	3 mg/m ³		
Prince Edward Island	OEL TWA (mg/m³)	3 mg/m ³		
Québec	VEMP (mg/m ³)	3.5 mg/m ³		
Saskatchewan	OEL STEL (mg/m ³)	7 mg/m³		
Saskatchewan	OEL TWA (mg/m³)	3.5 mg/m ³		
Yukon	OEL STEL (mg/m ³)	7 mg/m ³		
Yukon OEL TWA (mg/m³)		3.5 mg/m ³		
Petroleum distillates, hydro	treated light (64742-47-8)			
British Columbia	OEL TWA (mg/m ³)	200 mg/m ³ (application restricted to conditions in which		
		there are negligible aerosol exposures)		
Copper (7440-50-8)				
Mexico	OEL TWA (mg/m ³)	1 mg/m ³		
Mexico	OEL STEL (mg/m ³)	2 mg/m ³		
USA ACGIH	ACGIH TWA (mg/m ³)	0.2 mg/m ³		
USA OSHA	OSHA PEL (TWA) (mg/m ³)	1 mg/m ³		
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	0.1 mg/m ³		
USA IDLH	US IDLH (mg/m ³)	100 mg/m ³		
Alberta	OEL TWA (mg/m ³)	1 mg/m ³		
British Columbia	OEL TWA (mg/m ³)	0.2 mg/m ³		
Manitoba	OEL TWA (mg/m ³)	0.2 mg/m ³		
New Brunswick	OEL TWA (mg/m ³)	1 mg/m ³		
Newfoundland & Labrador	OEL TWA (mg/m ³)	0.2 mg/m ³		
Nova Scotia	OEL TWA (mg/m ³)	0.2 mg/m ³		
Nunavut	OEL STEL (mg/m ³)	2 mg/m ³		
Nunavut	OEL TWA (mg/m ³)	1 mg/m ³		
Northwest Territories	OEL STEL (mg/m ³)	2 mg/m ³		
Northwest Territories	OEL TWA (mg/m ³)	1 mg/m ³		
Ontario	OEL TWA (mg/m ³)	1 mg/m ³		
h				

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Prince Edward Island	OEL TWA (mg/m³)	0.2 mg/m ³
Québec	VEMP (mg/m ³)	1 mg/m ³
Saskatchewan	OEL STEL (mg/m ³)	3 mg/m ³
Saskatchewan	OEL TWA (mg/m³)	1 mg/m ³
Yukon	OEL STEL (mg/m ³)	2 mg/m ³
Yukon	OEL TWA (mg/m³)	1 mg/m³
Aluminum (7429-90-5)		
Mexico	OEL TWA (mg/m³)	10 mg/m ³
USA ACGIH	ACGIH TWA (mg/m³)	1 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m ³
USA NIOSH	NIOSH REL (TWA) (mg/m³)	5 mg/m ³
Alberta	OEL TWA (mg/m³)	10 mg/m ³
British Columbia	OEL TWA (mg/m³)	1.0 mg/m ³
Manitoba	OEL TWA (mg/m³)	1 mg/m ³
New Brunswick	OEL TWA (mg/m³)	10 mg/m ³
Newfoundland & Labrador	OEL TWA (mg/m³)	1 mg/m³
Nova Scotia	OEL TWA (mg/m³)	1 mg/m³
Nunavut	OEL STEL (mg/m ³)	20 mg/m ³
Nunavut	OEL TWA (mg/m³)	10 mg/m ³
Northwest Territories	OEL STEL (mg/m ³)	20 mg/m ³
Northwest Territories	OEL TWA (mg/m³)	10 mg/m ³
Ontario	OEL TWA (mg/m³)	1 mg/m ³
Prince Edward Island	OEL TWA (mg/m³)	1 mg/m ³
Québec	VEMP (mg/m ³)	10 mg/m ³
Saskatchewan	OEL STEL (mg/m ³)	20 mg/m ³
Saskatchewan	OEL TWA (mg/m³)	10 mg/m ³

Exposure Controls

Appropriate Engineering Controls: Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Take precautionary measures against static discharges. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapours may be released. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing: Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing. Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits.

Thermal Hazard Protection: Wear suitable protective clothing.

Other Information: When using, do not eat, drink or smoke.

ECTION 9: PHYSICAL AND CHEMICAL PROPERTIES		
Information on Basic Physical and Chemical Properties		
Physical State	:	Liquid
Appearance	:	Viscous Liquid
Odor	:	Aromatic
Odor Threshold	:	Not available
рН	:	Not available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Relative Evaporation Rate (butylacetate=1)	:	Not available
Relative evaporation rate (ether=1)	:	(Slower than Ethyl Ether)
Melting Point	:	Not available
Freezing Point	:	Not available
Boiling Point	:	118.9 - 206.7 °C (246°F-404°F)
Flash Point	:	23.9 °C (75°F)
Auto-ignition Temperature	:	Not available
Decomposition Temperature	:	Not available
Flammability (solid, gas)	:	Not available
Lower Flammable Limit	:	7 % (Explosive limit)
Upper Flammable Limit	:	1 % (Explosive limit)
Vapor Pressure	:	6.2 mm Hg (@20°C (68°F))
Relative Vapor Density at 20 °C	:	Heavier than air
Relative Density	:	Not available
Specific Gravity	:	<1
Solubility	:	Not available
Log Pow	:	Not available
Log Kow	:	Not available
Viscosity, Kinematic	:	Not available
Viscosity, Dynamic	:	Not available
Explosion Data – Sensitivity to Mechanical Impact	:	Not available
Explosion Data – Sensitivity to Static Discharge	:	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks. Incompatible materials.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. Water. Halogenated compounds.

Hazardous Decomposition Products: Carbon oxides (CO, CO2). May release flammable gases. Oxides of titanium. Nitrogen oxides. Sulfur oxides. Oxides of copper. Oxides of zinc. Oxides of aluminum. Hydrocarbons.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: May cause genetic defects.

Teratogenicity: Not available

Carcinogenicity: May cause cancer.

Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs through prolonged or repeated exposure.

Reproductive Toxicity: Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity (Single Exposure): May cause drowsiness or dizziness.

Aspiration Hazard: May be fatal if swallowed and enters airways.

Symptoms/Injuries After Inhalation: May cause drowsiness or dizziness.

Symptoms/Injuries After Skin Contact: Causes skin irritation.

Symptoms/Injuries After Eye Contact: May cause eye irritation.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Symptoms/Injuries After Ingestion: May be fatal if swallowed and enters airways. Ingestion is likely to be harmful or have adverse effects.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Xylenes (o-, m-, p- isomers) (1330-20-7)	
LD50 Oral Rat	4300 mg/kg
LC50 Inhalation Rat (mg/l)	47635 mg/l/4h (Exposure time: 4 h)
LC50 Inhalation Rat (ppm)	6247 ppm/4h (species: Sprague-Dawley)
ATE (oral)	4300.000 mg/kg body weight
ATE (dermal)	1100.000 mg/kg body weight
ATE (gases)	6247.000 ppmV/4h
ATE (vapors)	11.000 mg/l/4h
Titanium dioxide (13463-67-7)	
LD50 Oral Rat	> 10000 mg/kg
Solvent naphtha, petroleum, medium aliphatic (64742-88-7)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	3000 mg/kg
LC50 Inhalation Rat (mg/l)	> 5.28 mg/l/4h
Petroleum distillates, hydrotreated light (64742-47-8)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat (mg/l)	> 5.2 mg/l/4h
C.I. Pigment Green 7 (1328-53-6)	
LD50 Oral Rat	> 3000 mg/kg
Solvent naphtha, petroleum, light aliphatic (64742-89-8)	
LD50 Dermal Rabbit	3000 mg/kg
Xylenes (o-, m-, p- isomers) (1330-20-7)	
IARC Group	3
Titanium dioxide (13463-67-7)	
IARC Group	2B
Carbon black (1333-86-4)	
IARC Group	2B
Solvent naphtha, petroleum, medium aliphatic (64742-88-7)	
National Toxicity Program (NTP) Status	Evidence of Carcinogenicity.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Toxic to aquatic life with long lasting effects.

Xylenes (o-, m-, p- isomers) (1330-20-7)		
LC50 Fish 1	13.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])	
EC50 Daphnia 1	3.82 mg/l (Exposure time: 48 h - Species: water flea)	
LC 50 Fish 2	2.661 (2.661 - 4.093) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])	
EC50 Daphnia 2	(Exposure time: 48 h - Species: Gammarus lacustris)	
Carbon black (1333-86-4)		
LC50 Fish 1	5601 mg/l	
EC50 Daphnia 1	5600 mg/l (Exposure time: 24 h - Species: Daphnia magna)	

Safety Data Sheet

F

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Solvent naphtha, petroleum, medium a	liphatic (64742-88-7)
LC50 Fish 1	800 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	> 100 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Other Aquatic Organisms 1	450 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)
Petroleum distillates, hydrotreated ligh	t (64742-47-8)
LC50 Fish 1	45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC 50 Fish 2	2.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
Zinc (7440-66-6)	
LC50 Fish 1	2.16 - 3.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	0.139 - 0.908 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 Other Aquatic Organisms 1	0.11 - 0.271 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static])
LC 50 Fish 2	0.211 - 0.269 mg/l (Exposure time: 96 h - Species: Pimephales promelas [semi-static])
EC50 Other Aquatic Organisms 2	0.09 - 0.125 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata [static])
C.I. Pigment Green 7 (1328-53-6)	
LC50 Fish 1	752.4 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
Copper (7440-50-8)	
LC50 Fish 1	0.0068 (0.0068 - 0.0156) mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 Other Aquatic Organisms 1	0.0426 (0.0426 - 0.0535) mg/l (Exposure time: 72 h - Species: Pseudokirchneriella
	subcapitata [static])
LC 50 Fish 2	0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Other Aquatic Organisms 2	0.031 (0.031 - 0.054) mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata
	[static])
Solvent naphtha, petroleum, light aliph	atic (64742-89-8)
EC50 Other Aquatic Organisms 1	4700 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
Persistence and Degradability	
RADNOR Paint Pen - All Colors	
Persistence and Degradability	May cause long-term adverse effects in the environment.
Copper (7440-50-8)	T
Persistence and Degradability	Not readily biodegradable.
Bioaccumulative Potential	
RADNOR Paint Pen - All Colors	
Bioaccumulative Potential	Not established.
Xylenes (o-, m-, p- isomers) (1330-20-7)	
BCF fish 1	0.6 (0.6 - 15)
Log Pow	2.77 - 3.15
Solvent naphtha, petroleum, medium a	liphatic (64742-88-7)
BCF fish 1	(bioaccumulation expected)
Petroleum distillates, hydrotreated ligh	t (64742-47-8)
BCF fish 1	61 - 159
C.I. Pigment Blue 15 (147-14-8)	•
BCF fish 1	0.3 - 11
Log Pow	6.6 (at 25 °C)
C.I. Pigment Green 7 (1328-53-6)	· · · ·
BCF fish 1	0.51 - 74

Mobility in Soil Not available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional Information: Handle empty containers with care because residual vapors are flammable.

Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DO	T		
Proper Shipping Name	:	CONSUMER COMMODITY	
Hazard Class	:	9	
Identification Number	:	ID8000	
Label Codes	:	9	9
ERG Number	:	171	
14.2 In Accordance with IM	DG		
Proper Shipping Name	:	PAINT	
Hazard Class	:	3	
Identification Number	:	UN1263	
Packing Group	:	III	
Label Codes	:	3	Jul 1
EmS-No. (Fire)	:	F-E	$\langle \underline{\mathbf{v}} \rangle$
EmS-No. (Spillage)	:	S-E	3
14.3 In Accordance with IAT	ΓA		
Proper Shipping Name	:	CONSUMER COMMODITY	
Identification Number	:	ID8000	
Hazard Class	:	9	
Label Codes	:	9	9
ERG Code (IATA)	:	9L	
14.4 In Accordance with TD	G		
Proper Shipping Name	:	CONSUMER COMMODITY	
Hazard Class	:	9	ATA A
Identification Number	:	ID8000	
Label Codes	:	9	9

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

RADNOR Paint Pen - All Colors		
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard	
	Fire hazard	
	Immediate (acute) health hazard	
Butanamide, 2,2'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(2-methylphenyl)-3-oxo- (5468-75-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Butanamide, 2,2'-[(3,3'-dimethoxy[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[3-oxo-N-phenyl- (6505-28-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Xylenes (o-, m-, p- isomers) (1330-20-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Listed on SARA Section 313 (Specific toxic chemical listings)		
RQ (Reportable Quantity, Section 304 of EPA's List of Lists):	100 lb	
SARA Section 313 - Emission Reporting	1.0 %	

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Titanium dioxide (13463-67-7)	
Listed on the United States TSCA (Toxic Substances Control Act)	inventory
Limestone (1317-65-3)	
Listed on the United States TSCA (Toxic Substances Control Act)	inventory
Carbon black (1333-86-4)	
Listed on the United States TSCA (Toxic Substances Control Act)	inventory
Solvent naphtha, petroleum, medium aliphatic (64742-88-7)	
Listed on the United States TSCA (Toxic Substances Control Act)	inventory
Petroleum distillates, hydrotreated light (64742-47-8)	
Listed on the United States TSCA (Toxic Substances Control Act)	inventory
Zinc (7440-66-6)	
Listed on the United States TSCA (Toxic Substances Control Act)	inventory
Listed on SARA Section 313 (Specific toxic chemical listings)	
SARA Section 313 - Emission Reporting	1.0 % (dust or fume only)
C.I. Pigment Blue 15 (147-14-8)	
Listed on the United States TSCA (Toxic Substances Control Act)	inventory
C.I. Pigment Green 7 (1328-53-6)	
Listed on the United States TSCA (Toxic Substances Control Act)	inventory
Copper (7440-50-8)	
Listed on the United States TSCA (Toxic Substances Control Act)	inventory
Listed on SARA Section 313 (Specific toxic chemical listings)	4.00/
SARA Section 313 - Emission Reporting	1.0 %
Aluminum (7429-90-5)	· · ·
Listed on the United States ISCA (Toxic Substances Control Act)	inventory
SARA Section 313 - Emission Reporting	1.0 % (dust or fume only)
Solvent nanhtha, netroleum, light alinhatic (64742-89-8)	
Listed on the United States TSCA (Toxic Substances Control Act)	inventory
LIS State Regulations	
US State Regulations	
IIS - California - Pronosition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of
	California to cause cancer.
Carbon black (1333-86-4)	
U.S California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known to the State of
	California to cause cancer.
Butanamide, 2,2'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azd	o)]bis[N-(2-methylphenyl)-3-oxo- (5468-75-7)
U.S Texas - Effects Screening Levels - Long Term	
U.S Texas - Effects Screening Levels - Short Term	
Butanamide, 2,2'-[(3,3'-dimethoxy[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[3-oxo-N-phenyl- (6505-28-8)
U.S Texas - Effects Screening Levels - Long Term	
U.S Texas - Effects Screening Levels - Short Term	
Xylenes (o-, m-, p- isomers) (1330-20-7)	
U.S California - SCAQMD - Toxic Air Contaminants - Non-Cance	er Acute
U.S California - SCAQMD - Toxic Air Contaminants - Non-Cance	er Chronic
U.S California - Toxic Air Contaminant List (AB 1807, AB 2728)	
U.S Colorado - Groundwater Quality Standards	cts. Off Specification Species, Container and Spill Pecidues
U.S Colorado - Primary Drinking Water Regulations - Maximur	n Contaminant Level Goals (MCLGs)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

-	
	U.S Colorado - Primary Drinking Water Regulations - Maximum Contaminant Levels (MCLs)
	U.S Connecticut - Drinking Water Quality Standards - Maximum Contaminant Levels
	U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities
	U.S Florida - Drinking Water Standards - Volatile Organic Contaminants - Maximum Contaminant Levels (MCLs)
	U.S Georgia - Drinking Water - Maximum Contaminant Levels (MCLs)
	U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
	U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
	U.S Idaho - Occupational Exposure Limits - TWAs
	U.S Illinois - Toxic Air Contaminants
	U.S Louisiana - Reportable Quantity List for Pollutants
	U.S Maine - Air Pollutants - Hazardous Air Pollutants
	U.S Massachusetts - Allowable Ambient Limits (AALs)
	U.S Massachusetts - Allowable Threshold Concentrations (ATCs)
	U.S Massachusetts - Drinking Water - Maximum Contaminant Levels (MCLs)
	U.S Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
	U.S Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
	U.S Massachusetts - Oil & Hazardous Material List - Reportable Quantity
	U.S Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
	U.S Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
	U.S Massachusetts - Right To Know List
	U.S Massachusetts - Threshold Effects Exposure Limits (TELs)
	U.S Massachusetts - Toxics Use Reduction Act
	U.S Michigan - Occupational Exposure Limits - STELs
	U.S Michigan - Occupational Exposure Limits - TWAs
	U.S Michigan - Polluting Materials List
	U.S Minnesota - Chemicals of High Concern
	U.S Minnesota - Groundwater Health Risk Limits
	U.S Minnesota - Hazardous Substance List
	U.S Minnesota - Permissible Exposure Limits - STELs
	U.S Minnesota - Permissible Exposure Limits - TWAs
	U.S Missouri - Drinking Water - Maximum Contaminant Levels (MCLs)
	U.S Nebraska - Drinking Water - Maximum Contaminant Levels (MCLs)
	U.S New Hampshire - Drinking Water - Maximum Contaminant Levels (MCLs)
	U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
	U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
	U.S New Jersey - Discharge Prevention - List of Hazardous Substances
	U.S New Jersey - Environmental Hazardous Substances List
	U.S New Jersey - Primary Drinking Water Standards - Maximum Contaminant Levels - MCLs
	U.S New Jersey - Right to Know Hazardous Substance List
	U.S New Jersey - Special Health Hazards Substances List
	U.S New Jersey - Water Quality - Ground Water Quality Criteria
	U.S New Jersey - Water Quality - Practical Quantitation Levels (PQLs)
	U.S New Mexico - Water Quality - Standards for Ground Water of 10,000 mg/L TDS Concentration or Less
	U.S New York - Occupational Exposure Limits - TWAs
	U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances
	U.S North Carolina - Control of Toxic Air Pollutants
	U.S North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour
	U.S North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
	U.S North Dakota - Hazardous Wastes - Discarded Chemical Products, Off-Specification Species, Container and Spill Residues
	U.S North Dakota - Water Quality Standards - Human Health Value for Classes I, IA, II
	U.S Oregon - Permissible Exposure Limits - TWAs
	U.S Pennsylvania - Drinking Water - Maximum Contaminant Levels (MCLs)
	LLS Depressivenia DTK (Dight to Know) Environmental llagard list

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

U.S Pennsylvania - RTK (Right to Know) List
U.S Rhode Island - Air Toxics - Acceptable Ambient Levels - 1-Hour
U.S Rhode Island - Air Toxics - Acceptable Ambient Levels - 24-Hour
U.S Rhode Island - Air Toxics - Acceptable Ambient Levels - Annual
U.S Rhode Island - Water Quality Standards - Acute Freshwater Aquatic Life Criteria
U.S Rhode Island - Water Quality Standards - Chronic Freshwater Aquatic Life Criteria
U.S South Carolina - Maximum Contaminant Levels (MCLs)
U.S South Carolina - Toxic Air Pollutants - Maximum Allowable Concentrations
U.S South Carolina - Toxic Air Pollutants - Pollutant Categories
U.S Tennessee - Occupational Exposure Limits - STELs
U.S Tennessee - Occupational Exposure Limits - TWAs
U.S Texas - City of Austin - Aerosol Paint and Glue Restrictions
U.S Texas - Drinking Water Standards - Maximum Contaminant Levels (MCLs)
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Short Term
U.S Utah - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S Washington - Dangerous Waste - Discarded Chemical Products List
U.S Washington - Permissible Exposure Limits - STELs
U.S Washington - Permissible Exposure Limits - TWAs
U.S West Virginia - Water Quality - Groundwater Standards - Ceiling Concentrations
U.S Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
U.S Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
U.S Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
U.S Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet
Titanium dioxide (13463-67-7)
U.S Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs
U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs U.S Illinois - Toxic Air Contaminant Carcinogens
U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs U.S Illinois - Toxic Air Contaminant Carcinogens U.S Massachusetts - Right To Know List
U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs U.S Illinois - Toxic Air Contaminant Carcinogens U.S Massachusetts - Right To Know List U.S Michigan - Occupational Exposure Limits - TWAs
U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs U.S Illinois - Toxic Air Contaminant Carcinogens U.S Massachusetts - Right To Know List U.S Michigan - Occupational Exposure Limits - TWAs U.S Minnesota - Chemicals of High Concern
U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs U.S Illinois - Toxic Air Contaminant Carcinogens U.S Massachusetts - Right To Know List U.S Michigan - Occupational Exposure Limits - TWAs U.S Minnesota - Chemicals of High Concern U.S Minnesota - Hazardous Substance List
U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs U.S Illinois - Toxic Air Contaminant Carcinogens U.S Massachusetts - Right To Know List U.S Michigan - Occupational Exposure Limits - TWAs U.S Minnesota - Chemicals of High Concern U.S Minnesota - Hazardous Substance List U.S Minnesota - Permissible Exposure Limits - TWAs
U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs U.S Illinois - Toxic Air Contaminant Carcinogens U.S Massachusetts - Right To Know List U.S Michigan - Occupational Exposure Limits - TWAs U.S Minnesota - Chemicals of High Concern U.S Minnesota - Chemicals of High Concern U.S Minnesota - Hazardous Substance List U.S Minnesota - Permissible Exposure Limits - TWAs U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
 U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs U.S Illinois - Toxic Air Contaminant Carcinogens U.S Massachusetts - Right To Know List U.S Michigan - Occupational Exposure Limits - TWAs U.S Michigan - Occupational Exposure Limits - TWAs U.S Minnesota - Chemicals of High Concern U.S Minnesota - Hazardous Substance List U.S Minnesota - Permissible Exposure Limits - TWAs U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
 U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs U.S Illinois - Toxic Air Contaminant Carcinogens U.S Massachusetts - Right To Know List U.S Michigan - Occupational Exposure Limits - TWAs U.S Michigan - Occupational Exposure Limits - TWAs U.S Minnesota - Chemicals of High Concern U.S Minnesota - Hazardous Substance List U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S New Jersey - Right to Know Hazardous Substance List
 U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs U.S Illinois - Toxic Air Contaminant Carcinogens U.S Massachusetts - Right To Know List U.S Michigan - Occupational Exposure Limits - TWAs U.S Minnesota - Chemicals of High Concern U.S Minnesota - Hazardous Substance List U.S Minnesota - Permissible Exposure Limits - TWAs U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S New Jersey - Right to Know Hazardous Substance List U.S New York - Occupational Exposure Limits - TWAs
 U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs U.S Illinois - Toxic Air Contaminant Carcinogens U.S Massachusetts - Right To Know List U.S Michigan - Occupational Exposure Limits - TWAs U.S Minnesota - Chemicals of High Concern U.S Minnesota - Hazardous Substance List U.S Minnesota - Permissible Exposure Limits - TWAs U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S New Jersey - Right to Know Hazardous Substance List U.S New York - Occupational Exposure Limits - TWAs U.S North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
 U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs U.S Illinois - Toxic Air Contaminant Carcinogens U.S Massachusetts - Right To Know List U.S Michigan - Occupational Exposure Limits - TWAs U.S Michigan - Occupational Exposure Limits - TWAs U.S Minnesota - Chemicals of High Concern U.S Minnesota - Hazardous Substance List U.S Minnesota - Permissible Exposure Limits - TWAs U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S New Jersey - Right to Know Hazardous Substance List U.S New York - Occupational Exposure Limits - TWAs U.S North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour U.S Oregon - Permissible Exposure Limits - TWAs
 U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs U.S Illinois - Toxic Air Contaminant Carcinogens U.S Massachusetts - Right To Know List U.S Michigan - Occupational Exposure Limits - TWAs U.S Minnesota - Chemicals of High Concern U.S Minnesota - Hazardous Substance List U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Jersey - Right to Know Hazardous Substance List U.S New York - Occupational Exposure Limits - TWAs U.S North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour U.S Oregon - Permissible Exposure Limits - TWAs U.S Pennsylvania - RTK (Right to Know) List
 U.S Connecticut - Hazardous Air Pollutants - HUVs (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs U.S Illinois - Toxic Air Contaminant Carcinogens U.S Massachusetts - Right To Know List U.S Michigan - Occupational Exposure Limits - TWAs U.S Michigan - Occupational Exposure Limits - TWAs U.S Minnesota - Chemicals of High Concern U.S Minnesota - Hazardous Substance List U.S Ninnesota - Permissible Exposure Limits - TWAs U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Jersey - Right to Know Hazardous Substance List U.S New York - Occupational Exposure Limits - TWAs U.S North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour U.S Oregon - Permissible Exposure Limits - TWAs U.S Pennsylvania - RTK (Right to Know) List U.S Tennessee - Occupational Exposure Limits - TWAs
 U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs U.S Illinois - Toxic Air Contaminant Carcinogens U.S Missachusetts - Right To Know List U.S Michigan - Occupational Exposure Limits - TWAs U.S Minnesota - Chemicals of High Concern U.S Minnesota - Chemicals of High Concern U.S Minnesota - Hazardous Substance List U.S Ninnesota - Permissible Exposure Limits - TWAs U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S New Jersey - Right to Know Hazardous Substance List U.S New York - Occupational Exposure Limits - TWAs U.S North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour U.S Oregon - Permissible Exposure Limits - TWAs U.S Pennsylvania - RTK (Right to Know) List U.S Pennsylvania - RTK (Right to Know) List U.S Texas - Effects Screening Levels - Long Term
 U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs U.S Illinois - Toxic Air Contaminant Carcinogens U.S Missachusetts - Right To Know List U.S Michigan - Occupational Exposure Limits - TWAs U.S Minnesota - Chemicals of High Concern U.S Minnesota - Hazardous Substance List U.S Minnesota - Hazardous Substance List U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S New Jersey - Right to Know Hazardous Substance List U.S New York - Occupational Exposure Limits - TWAs U.S North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour U.S Oregon - Permissible Exposure Limits - TWAs U.S Pennsylvania - RTK (Right to Know) List U.S Pennsylvania - RTK (Right to Know) List U.S Texas - Effects Screening Levels - Long Term U.S Texas - Effects Screening Levels - Short Term
U.S Connecticut - Hazardous Air Pollutants - HUVs (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs U.S Illinois - Toxic Air Contaminant Carcinogens U.S Massachusetts - Right To Know List U.S Michigan - Occupational Exposure Limits - TWAs U.S Minnesota - Chemicals of High Concern U.S Minnesota - Hazardous Substance List U.S Minnesota - Hazardous Substance List U.S Minnesota - Permissible Exposure Limits - TWAs U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Jersey - Right to Know Hazardous Substance List U.S New Jersey - Right to Know Hazardous Substance List U.S New York - Occupational Exposure Limits - TWAs U.S North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour U.S Oregon - Permissible Exposure Limits - TWAs U.S Pennsylvania - RTK (Right to Know) List U.S Texas - Effects Screening Levels - Long Term U.S Texas - Effects Screening Levels - Long Term U.S Texas - Effects Screening Levels - Short Term U.S Vermont - Permissible Exposure Limits - TWAs
 U.S Connecticut - Hazardous Air Pollutants - HEVs (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs U.S Illinois - Toxic Air Contaminant Carcinogens U.S Massachusetts - Right To Know List U.S Minnesota - Chemicals of High Concern U.S Minnesota - Chemicals of High Concern U.S Minnesota - Hazardous Substance List U.S Minnesota - Permissible Exposure Limits - TWAs U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Jersey - Right to Know Hazardous Substance List U.S New York - Occupational Exposure Limits - TWAs U.S New York - Occupational Exposure Limits - TWAs U.S North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour U.S Oregon - Permissible Exposure Limits - TWAs U.S Pennsylvania - RTK (Right to Know) List U.S Texas - Effects Screening Levels - Long Term U.S Texas - Effects Screening Levels - Short Term U.S Wershington - Permissible Exposure Limits - TWAs U.S Texas - Effects Screening Levels - Short Term U.S Washington - Permissible Exposure Limits - TKAs U.S Washington - Permissible Exposure Limits - STELs
 U.S Connecticut - Hazardous Air Pollutants - HU'S (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs U.S Illinois - Toxic Air Contaminant Carcinogens U.S Missachusetts - Right To Know List U.S Michigan - Occupational Exposure Limits - TWAs U.S Minnesota - Chemicals of High Concern U.S Minnesota - Hazardous Substance List U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S New York - Occupational Exposure Limits - TWAs U.S New York - Occupational Exposure Limits - TWAs U.S New York - Occupational Exposure Limits - TWAs U.S New York - Occupational Exposure Limits - TWAs U.S Premissible Exposure Limits - TWAs U.S Premissible Exposure Limits - TWAs U.S Premissible Exposure Limits - TWAs U.S Texas - Effects Screening Levels - Long Term U.S Texas - Effects Screening Levels - Long Term U.S Vermont - Permissible Exposure Limits - TWAs U.S Vermont - Permissible Exposure Limits - TWAs U.S Texas - Effects Screening Levels - Short Term U.S Vermont - Permissible Exposure Limits - TWAs U.S Washington - Permissible Exposure Limits - TWAs U.S Washington - Permissible Exposure Limits - TWAs
 U.S Connecticut - Hazardous Air Pollutants - HLVS (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs U.S Illinois - Toxic Air Contaminant Carcinogens U.S Missachusetts - Right To Know List U.S Michigan - Occupational Exposure Limits - TWAs U.S Minnesota - Chemicals of High Concern U.S Minnesota - Hazardous Substance List U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S New York - Occupational Exposure Limits - TWAs U.S New York - Occupational Exposure Limits - TWAs U.S Oregon - Permissible Exposure Limits - TWAs U.S Pennsylvania - RTK (Right to Know) List U.S Tenassee - Occupational Exposure Limits - TWAs U.S Texas - Effects Screening Levels - Long Term U.S Texas - Effects Screening Levels - Long Term U.S Vermont - Permissible Exposure Limits - TWAs U.S Washington - Per
 U.S. Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs U.S Missachusetts - Right To Know List U.S Minesota - Chemicals of High Concern U.S Minnesota - Chemicals of High Concern U.S Minnesota - Chemicals of High Concern U.S Minnesota - Permissible Exposure Limits - TWAs U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S New Jersey - Right to Know Hazardous Substance List U.S New York - Occupational Exposure Limits - TWAs U.S New York - Occupational Exposure Limits - TWAs U.S Oregon - Permissible Exposure Limits - TWAs U.S Pennsylvania - RTK (Right to Know) List U.S Texas - Effects Screening Levels - Long Term U.S Vermont - Permissible Exposure Limits - TWAs U.S Vermont - Permissible Exposure Limits - TWAs U.S Vermont - Permissible Exposure Limits - TWAs U.S Texas - Effects Screening Levels - Short Term U.S Vermont - Permissible Exposure Limits - TWAs U.S Washington - Permissible Exposure Limits - TWAs U.S Washington - Permissible Exposure Limits - TWAs U.S Texas - Effects Screening Levels - Short Term U.S Washington - Permissible Exposure Limits - TWAs U.S Texas - Effects Screening Levels - Short Term U.S Washington - Permissible Exposure Limits - TWAs U.S Washington - Permissible Exposure Limits - TWAs U.S Washington - Permissible Exposure Limits - TW
 U.S. Connecticut - Hazardous Air Pollutants - HUVs (8 hr) U.S. Connecticut - Hazardous Air Pollutants - HUVs (8 hr) U.S Idaho - Occupational Exposure Limits - TWAs U.S Massachusetts - Right To Know List U.S Minesota - Remicals of High Concern U.S Minnesota - Chemicals of High Concern U.S Minnesota - Permissible Exposure Limits - TWAs U.S Ninnesota - Permissible Exposure Limits - TWAs U.S Ninnesota - Permissible Exposure Limits - TWAs U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual U.S New York - Occupational Exposure Limits - TWAs U.S North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour U.S Oregon - Permissible Exposure Limits - TWAs U.S Pennsylvania - RTK (Right to Know) List U.S Pennsylvania - RTK (Right to Know) List U.S Texas - Effects Screening Levels - Long Term U.S Texas - Effects Screening Levels - Short Term U.S Washington - Permissible Exposure Limits - STELs U.S Washington - Permissible Exposure Limits - TWAs U.S Washington - Permissible Exposure Limits - TWAs U.S Washington - Permissible Exposure Limits - TWAs U.S Mashington - Permissible Exposure Limits - TWAs U.S Mashington - Permissible Exposure Limits - TWAs U.S Massachusetts - Right To Know List

U.S. - Minnesota - Hazardous Substance List

F

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

U.S Minnesota - Permissible Exposure Limits - TWAs
U.S New Jersey - Right to Know Hazardous Substance List
U.S Oregon - Permissible Exposure Limits - TWAs
U.S Pennsylvania - RTK (Right to Know) List
U.S Tennessee - Occupational Exposure Limits - TWAs
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Short Term
U.S Vermont - Permissible Exposure Limits - TWAs
U.S Washington - Permissible Exposure Limits - STELs
U.S Washington - Permissible Exposure Limits - TWAs
Carbon black (1333-86-4)
U.S California - Toxic Air Contaminant List (AB 1807, AB 2728)
U.S Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S Idaho - Occupational Exposure Limits - TWAs
U.S Illinois - Toxic Air Contaminant Carcinogens
U.S Illinois - Toxic Air Contaminants
U.S Maine - Chemicals of High Concern
U.S Massachusetts - Right To Know List
U.S Michigan - Occupational Exposure Limits - TWAs
U.S Minnesota - Chemicals of High Concern
U.S Minnesota - Hazardous Substance List
U.S Minnesota - Permissible Exposure Limits - TWAs
U.S New Jersey - Right to Know Hazardous Substance List
U.S New Jersey - Special Health Hazards Substances List
U.S New York - Occupational Exposure Limits - I WAs
U.S North Dakota - Air Poliutants - Guideline Concentrations - 8-Hour
U.S Oregon - Permissible exposure Limits - TWAS
U.S. Tennessee Occupational Exposure Limits TW/As
U.S Terres - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Long Term
US - Vermont - Permissible Exposure Limits - TWAs
U.S Washington - Permissible Exposure Limits - STELs
U.S Washington - Permissible Exposure Limits - TWAs
U.S Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
U.S Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
U.S Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
U.S Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet
Solvent naphtha, petroleum, medium aliphatic (64742-88-7)
U.S New Jersey - Right to Know Hazardous Substance List
U.S New Jersey - Special Health Hazards Substances List
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Short Term
Petroleum distillates, hydrotreated light (64742-47-8)
U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Short Term

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Zinc (7440-66-6)U.S. - California - Priority Toxic Pollutants - Freshwater CriteriaU.S. - California - Priority Toxic Pollutants - Saltwater CriteriaU.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)U.S. - Colorado - Primary Drinking Water Regulations - Secondary Maximum Contaminant Levels (SMCLs)U.S. - Connecticut - Water Quality Standards - Acute Freshwater Aquatic Life Criteria

U.S. - Connecticut - Water Quality Standards - Acute Saltwater Aquatic Life Criteria

U.S. - Connecticut - Water Quality Standards - Chronic Freshwater Aquatic Life Criteria

U.S. - Connecticut - Water Quality Standards - Chronic Saltwater Aquatic Life Criteria

U.S. - Connecticut - Water Quality Standards - Consumption of Organisms Only

U.S. - Connecticut - Water Quality Standards - Consumption of Water and Organisms

U.S. - Connecticut - Water Quality Standards - Health Designations

U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities

U.S. - Florida - Drinking Water Standards - Secondary Maximum Contaminant Levels (SMCLs)

U.S. - Georgia - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)

U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations

U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)

U.S. - Louisiana - Reportable Quantity List for Pollutants

U.S. - Maryland - Surface Water Quality Standards - Acute Freshwater Aquatic Life

U.S. - Maryland - Surface Water Quality Standards - Acute Saltwater Aquatic Life Criteria

U.S. - Maryland - Surface Water Quality Standards - Chronic Freshwater Aquatic Life

U.S. - Maryland - Surface Water Quality Standards - Chronic Saltwater Aquatic Life Criteria

U.S. - Maryland - Surface Water Quality Standards - Consumption of Organisms Only

U.S. - Maryland - Surface Water Quality Standards - Consumption of Water and Organisms

U.S. - Massachusetts - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)

U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1

U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2

U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity

U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1

U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2

U.S. - Massachusetts - Right To Know List

U.S. - Massachusetts - Toxics Use Reduction Act

U.S. - Michigan - Polluting Materials List

U.S. - Minnesota - Chemicals of High Concern

U.S. - Minnesota - Groundwater Health Risk Limits

U.S. - Missouri - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)

U.S. - Nevada - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)

U.S. - New Hampshire - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)

U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour

U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual

U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances

U.S. - New Jersey - Environmental Hazardous Substances List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - New Jersey - Secondary Drinking Water Standards - Recommended Upper Limits (RULs)

U.S. - New Jersey - Special Health Hazards Substances List

U.S. - New Jersey - Water Quality - Ground Water Quality Criteria

U.S. - New Jersey - Water Quality - Practical Quantitation Levels (PQLs)

U.S. - New Mexico - Water Quality - Standards for Ground Water of 10,000 mg/L TDS Concentration or Less

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

U.S. - North Dakota - Water Quality Standards - Aquatic Life Acute Value for Classes I, IA, II, III

U.S. - North Dakota - Water Quality Standards - Aquatic Life Chronic Value for Classes I, IA, II, III

U.S. - North Dakota - Water Quality Standards - Human Health Value for Class III

U.S. - North Dakota - Water Quality Standards - Human Health Value for Classes I, IA, II

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

U.S Pennsylvania - Beneficial Use of Sewage Sludge by Land Application - Pollutant Ceiling Limits
U.S Pennsylvania - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S Pennsylvania - RTK (Right to Know) List
U.S Rhode Island - Air Toxics - Acceptable Ambient Levels - 24-Hour
U.S Rhode Island - Air Toxics - Acceptable Ambient Levels - Annual
U.S Rhode Island - Water Quality Standards - Acute Freshwater Aquatic Life Criteria
U.S Rhode Island - Water Quality Standards - Acute Saltwater Aquatic Life Criteria
U.S Rhode Island - Water Quality Standards - Chronic Freshwater Aquatic Life Criteria
U.S Rhode Island - Water Quality Standards - Chronic Saltwater Aquatic Life Criteria
U.S Rhode Island - Water Quality Standards - Human Health Criteria for Consumption of Aquatic Organisms Only
U.S Rhode Island - Water Quality Standards - Human Health Criteria for Consumption of Water and Aquatic Organisms
II S - South Carolina - Secondary Maximum Contaminant Levels (SMCLs)
U.S Texas - Drinking Water Standards - Secondary Constituent Levels (SCLs)
U.S. Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Cong renni
U.S Heads - Effects Screening Levels - Short Term
U.S Virginia - Water Quality Standards - Acuta Eroshwater Aquatic Life
U.S Virginia - Water Quality Standards - Acute Freshwater Aquatic Life
U.S Virginia - Water Quality Standards - Acute Sattwater Aquatic Life
U.S Virginia - Water Quality Standards - Chronic Saltwater Aquatic Life
U.S Virginia - Water Quality Standards - Dublic Water Supply Effluent Limits
U.S Virginia - Water Quality Standards - Surface Water Supply Endent Limits
U.S Virginia - Water Quality Standards - Acute Acuteis life Criteria for Erech Water Supply Endent Limits
U.S Alaska - Water Quality Standards - Acute Aqualic Life Criteria for Fresh Water
U.S Alaska - Water Quality Standards - Chronic Aquatic Life Criteria for Marine Mater
U.S Alaska - Water Quality Standards - Acute Aquatic Life Criteria for Marine Water
U.S Alaska - Water Quality Standards - Chronic Aquatic Life Criteria for Water
U.S Arkansas - Surface Water Quality Standards - Chronic Aquatic Life Criteria
0.5 Arkansas - Surface Water Quality Standards - Acute Aquatic Life Criteria
C.I. Pigment Blue 15 (147-14-8)
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Short Term
C.I. Pigment Green 7 (1328-53-6)
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Short Term
Copper (7440-50-8)
U.S California - Priority Toxic Pollutants - Freshwater Criteria
U.S California - Priority Toxic Pollutants - Human Health Criteria
U.S California - Priority Toxic Pollutants - Saltwater Criteria
U.S California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute
U.S California - Toxic Air Contaminant List (AB 1807, AB 2728)
U.S Colorado - Primary Drinking Water Regulations - Maximum Contaminant Level Goals (MCLGs)
U.S Colorado - Primary Drinking Water Regulations - Secondary Maximum Contaminant Levels (SMCLs)
U.S Connecticut - Drinking Water Quality Standards - Groundwater Sources
U.S Connecticut - Drinking Water Quality Standards - Maximum Contaminant Levels
U.S Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S Connecticut - Water Quality Standards - Acute Freshwater Aquatic Life Criteria
U.S Connecticut - Water Quality Standards - Acute Saltwater Aquatic Life Criteria
U.S Connecticut - Water Quality Standards - Chronic Freshwater Aquatic Life Criteria
U.S Connecticut - Water Quality Standards - Chronic Saltwater Aquatic Life Criteria
U.S Connecticut - Water Quality Standards - Consumption of Water and Organisms

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

U.S Connecticut - Water Quality Standards - Health Designations
U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities
U.S Florida - Drinking Water Standards - Secondary Maximum Contaminant Levels (SMCLs)
U.S Georgia - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)
U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S Idaho - Occupational Exposure Limits - TWAs
U.S Illinois - Toxic Air Contaminants
U.S Louisiana - Reportable Quantity List for Pollutants
U.S Maryland - Surface Water Quality Standards - Acute Freshwater Aquatic Life
U.S Maryland - Surface Water Quality Standards - Acute Saltwater Aquatic Life Criteria
U.S Maryland - Surface Water Quality Standards - Chronic Freshwater Aquatic Life
U.S Maryland - Surface Water Quality Standards - Chronic Saltwater Aquatic Life Criteria
U.S Maryland - Surface Water Quality Standards - Consumption of Water and Organisms
U.S Massachusetts - Allowable Ambient Limits (AALs)
U.S Massachusetts - Allowable Threshold Concentrations (ATCs)
U.S Massachusetts - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S Massachusetts - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)
U.S Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
U.S Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
U.S Massachusetts - Oil & Hazardous Material List - Reportable Quantity
U.S Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
U.S Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
U.S Massachusetts - Right To Know List
U.S Massachusetts - Threshold Effects Exposure Limits (TELs)
U.S Massachusetts - Toxics Use Reduction Act
U.S Michigan - Occupational Exposure Limits - TWAs
U.S Michigan - Polluting Materials List
U.S Minnesota - Hazardous Substance List
U.S Minnesota - Permissible Exposure Limits - TWAs
U.S Missouri - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S Missouri - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)
U.S Nevada - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)
U.S New Hampshire - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)
U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S New Jersey - Discharge Prevention - List of Hazardous Substances
U.S New Jersey - Environmental Hazardous Substances List
U.S New Jersey - Primary Drinking Water Standards - Action Levels - ALs
U.S New Jersey - Right to Know Hazardous Substance List
U.S New Jersey - Water Quality - Ground Water Quality Criteria
U.S New Jersey - Water Quality - Practical Quantitation Levels (PQLs)
U.S New Mexico - Water Quality - Standards for Ground Water of 10,000 mg/L TDS Concentration or Less
U.S New York - Occupational Exposure Limits - TWAs
U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances
U.S North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
U.S North Dakota - Water Quality Standards - Aquatic Life Acute Value for Classes I, IA, II, III
U.S North Dakota - Water Quality Standards - Aquatic Life Chronic Value for Classes I, IA, II, III
U.S North Dakota - Water Quality Standards - Human Health Value for Classes I, IA, II
U.S Oregon - Permissible Exposure Limits - TWAs
U.S Pennsylvania - Beneficial Use of Sewage Sludge by Land Application - Pollutant Ceiling Limits
U.S Pennsylvania - Drinking Water - Maximum Contaminant Levels (MCLs)
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

U.S Pennsylvania - RTK (Right to Know) List
U.S Rhode Island - Air Toxics - Acceptable Ambient Levels - 1-Hour
U.S Rhode Island - Air Toxics - Acceptable Ambient Levels - Annual
U.S Rhode Island - Water Quality Standards - Acute Freshwater Aquatic Life Criteria
U.S Rhode Island - Water Quality Standards - Acute Saltwater Aquatic Life Criteria
US - Rhode Island - Water Quality Standards - Chronic Freshwater Aquatic Life Criteria
U.S Rhode Island - Water Quality Standards - Chronic Saltwater Aquatic Life Criteria
U.S Rhode Island - Water Quality Standards - Human Health Criteria for Consumption of Water and Aquatic Organisms
U.S Niloue Island - Water Quality Standards - Human Health Chtena for Consumption of Water and Aquatic Organisms
U.S John Carolina - Secondary Maximum Contaminant Levels (SMCLS)
U.S Texas - Drinking Water Standards - Secondary Constituent Levels (SCLs)
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Short Term
U.S Otali - Drinking Watel - Secondary Waximum Containmant Levels (SWCLS)
U.S Vermont - Permissible Exposure Limits - Twas
U.S Virginia - Water Quality Standards - Acute Freshwater Aquatic Life
U.S Virginia - Water Quality Standards - Acute Saltwater Aquatic Life
U.S Virginia - Water Quality Standards - Chronic Freshwater Aquatic Life
U.S Virginia - Water Quality Standards - Chronic Saltwater Aquatic Life
U.S Virginia - Water Quality Standards - Public Water Supply Effluent Limits
U.S Washington - Permissible Exposure Limits - STELS
U.S Washington - Permissible Exposure Limits - TWAS
U.S West Virginia - Water Quality - Groundwater Standards - Ceiling Concentrations
U.S Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
U.S Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
U.S Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
U.S Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet
U.S Alaska - Water Quality Standards - Acute Aquatic Life Criteria for Fresh Water
U.S Alaska - Water Quality Standards - Chronic Aquatic Life Criteria for Fresh Water
U.S Alaska - Water Quality Standards - Acute Aquatic Life Criteria for Marine Water
U.S Alaska - Water Quality Standards - Chronic Aquatic Life Criteria for Marine Water
U.S Arkansas - Surface Water Quality Standards - Chronic Aquatic Life Criteria
U.S Arkansas - Surface Water Quality Standards - Acute Aquatic Life Criteria
Aluminum (7429-90-5)
U.S California - Toxic Air Contaminant List (AB 1807, AB 2728)
U.S Colorado - Primary Drinking Water Regulations - Secondary Maximum Contaminant Levels (SMCLs)
U.S Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S Connecticut - Water Quality Standards - Acute Freshwater Aquatic Life Criteria
U.S Connecticut - Water Quality Standards - Chronic Freshwater Aquatic Life Criteria
U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities
U.S Florida - Drinking Water Standards - Secondary Maximum Contaminant Levels (SMCLs)
U.S Georgia - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)
U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S Maryland - Surface Water Quality Standards - Acute Freshwater Aquatic Life
U.S Maryland - Surface Water Quality Standards - Chronic Freshwater Aquatic Life
U.S Massachusetts - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)
U.S Massachusetts - Right To Know List
U.S Massachusetts - Toxics Use Reduction Act
U.S Michigan - Occupational Exposure Limits - TWAs
U.S Minnesota - Hazardous Substance List

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

U.S Minnesota - Permissible Exposure Limits - TWAs	
U.S Missouri - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)	
U.S Nevada - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)	
U.S New Hampshire - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)	
U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour	
U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual	
U.S New Jersey - Discharge Prevention - List of Hazardous Substances	
U.S New Jersey - Environmental Hazardous Substances List	
U.S New Jersey - Right to Know Hazardous Substance List	
U.S New Jersey - Secondary Drinking Water Standards - Recommended Upper Limits (RULs)	
U.S New Jersey - Special Health Hazards Substances List	
U.S New Jersey - Water Quality - Ground Water Quality Criteria	
U.S New Jersey - Water Quality - Practical Quantitation Levels (PQLs)	
U.S New Mexico - Water Quality - Standards for Ground Water of 10,000 mg/L TDS Concentration or Less	
U.S North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour	
U.S Oregon - Permissible Exposure Limits - TWAs	
U.S Pennsylvania - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)	
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List	
U.S Pennsylvania - RTK (Right to Know) List	
U.S Rhode Island - Water Quality Standards - Acute Freshwater Aquatic Life Criteria	
U.S Rhode Island - Water Quality Standards - Chronic Freshwater Aquatic Life Criteria	
U.S South Carolina - Secondary Maximum Contaminant Levels (SMCLs)	
U.S Tennessee - Occupational Exposure Limits - TWAs	
U.S Texas - Drinking Water Standards - Secondary Constituent Levels (SCLs)	
U.S Texas - Effects Screening Levels - Long Term	
U.S Texas - Effects Screening Levels - Short Term	
U.S Utah - Drinking Water - Secondary Maximum Contaminant Levels (SMCLs)	
U.S Vermont - Permissible Exposure Limits - TWAs	
U.S Washington - Permissible Exposure Limits - STELs	
U.S Washington - Permissible Exposure Limits - TWAs	
U.S Alaska - Water Quality Standards - Acute Aquatic Life Criteria for Fresh Water	
U.S Alaska - Water Quality Standards - Chronic Aquatic Life Criteria for Fresh Water	
Solvent naphtha, petroleum, light aliphatic (64742-89-8)	
U.S Texas - Effects Screening Levels - Long Term	
U.S Texas - Effects Screening Levels - Short Term	

Canadian Regulations

RADNOR Paint Pen - All Colors				
WHMIS Classification	Class B Division 2 - Flammable Liquid			
	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects			
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects			
	Ţ			
Butanamide, 2,2'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(2-methylphenyl)-3-oxo- (5468-75-7)				
Listed on the Canadian DSL (Domestic Substances List) inventory.				
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria			
Butanamide, 2,2'-[(3,3'-dimethoxy[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[3-oxo-N-phenyl- (6505-28-8)				
Listed on the Canadian DSL (Domestic Substances List) inventory.				
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria			

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Xylenes (o-, m-, p- isomers) (2	1330-20-7)	
Listed on the Canadian DSL (D	omestic Substances List) inventory.	
WHMIS Classification	Class B Division 2 - Flammable Liquid	
	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects	
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
Titanium dioxide (13463-67-7		
Listed on the Canadian DSL (D	omestic Substances List) inventory.	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects	
Limestone (1317-65-3)		
Listed on Non-Domestic Subst	cances List (NDSL)	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects	
Carbon black (1333-86-4)		
Listed on the Canadian DSL (D	omestic Substances List) inventory.	
Listed on the Canadian Ingred	ient Disclosure List	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects	
Solvent naphtha, petroleum,	medium aliphatic (64742-88-7)	
Listed on the Canadian DSL (D	omestic Substances List) inventory.	
WHMIS Classification	Class B Division 3 - Combustible Liquid	
Petroleum distillates, hydrot	reated light (64742-47-8)	
Listed on the Canadian DSL (D	omestic Substances List) inventory.	
WHMIS Classification	Class B Division 3 - Combustible Liquid	
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
Zinc (7440-66-6)		
Listed on the Canadian DSL (D	omestic Substances List) inventory.	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	
C.I. Pigment Blue 15 (147-14-	8)	
Listed on the Canadian DSL (D	omestic Substances List) inventory.	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	
C.I. Pigment Green 7 (1328-5	3-6)	
Listed on the Canadian DSL (D	omestic Substances List) inventory.	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	
Copper (7440-50-8)		
Listed on the Canadian DSL (D	omestic Substances List) inventory.	
Listed on the Canadian Ingred	ient Disclosure List	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	
Aluminum (7429-90-5)		
Listed on the Canadian DSL (D	omestic Substances List) inventory.	
Listed on the Canadian Ingred	lient Disclosure List	
WHMIS Classification	Class B Division 6 - Reactive Flammable Material	
	Class B Division 4 - Flammable Solid	
Solvent naphtha, petroleum,	light aliphatic (64742-89-8)	
Listed on the Canadian DSL (Domestic Substances List) inventory.		
WHMIS Classification	Class B Division 2 - Flammable Liquid	
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS		

contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION

: 05/02/2014

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Other Information

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4	Acute toxicity (inhalation:vapour) Category 4
(Inhalation:vapour)	
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1B	Carcinogenicity Category 1B
Carc. 2	Carcinogenicity Category 2
Comb. Dust	Combustible Dust
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 1	Flammable liquids Category 1
Flam. Liq. 3	Flammable liquids Category 3
Flam. Sol. 1	Flammable solids Category 1
Muta. 1B	Germ cell mutagenicity Category 1B
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
Water-react. 2	Substances and mixtures which in contact with water emit flammable gases Category 2
H224	Extremely flammable liquid and vapor
H226	Flammable liquid and vapor
H228	Flammable solid
	May form combustible dust concentrations in air
H261	In contact with water releases flammable gases
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	H410	Very toxic to aquatic life with long lasting effects			
	H411	Toxic to aquatic life with long lasting effects			
	H412	Harmful to aquatic life with long lasting effects			
NFPA Health Hazard		: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.			
NFPA	Fire Hazard	: 3 - Liquids and solids that can be ignited under almost all ambient conditions.			
NFPA	Reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.			
Party I	Party Responsible for the Preparation of This Document				
J.P. Nis	ssen Co.				
2544 F	airhill Avenue				
Glensi	de, PA 19038				
215-88	36-2025				

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS 2