Safety Data Sheet

Issue Date: 11-Nov-2011 Revision Date: 18-Jul-2014 Version 1

1. IDENTIFICATION

Product Identifier

Product Name Radnor® 2.5 Ounce Pump Bottle Anti-Fog Treatment System With Buffing Cloth

Other means of identification

SDS # 004162

Product Number RAD64051467

Recommended use of the chemical and restrictions on use
Recommended Use Anti-Fog Lens Treatment.

Details of the supplier of the safety data sheet

Supplier Address Radnor Products

259 North Radnor - Chester Road

Suite 100

Radnor, PA, 19087-5283

Emergency Telephone Number

Company Phone Number 1-866-734-3438 **Emergency Telephone (24 hr)** 1-866-734-3438

2. HAZARDS IDENTIFICATION

Appearance Slightly viscous liquid Physical State Liquid Odor Sweet Slight alcohol

Classification

The information below is for the liquid in industrial quantities when used in an industrial setting. The solution as packed in a consumer quantity is considered a consumer good and when used as intended is unlikely to present a hazard

Serious eye damage/eye irritation	Category 2
Flammable Liquids	Category 4

Signal Word Warning

Hazard Statements

Causes serious eye irritation Combustible liquid



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

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

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

<u>Precautionary Statements - Response</u>

IF IN EYES: 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

IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown Acute Toxicity

3.12% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Isopropyl Alcohol	67-63-0	10-20

^{**}If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. FIRST-AID MEASURES

First Aid Measures

General Advice In case of shortness of breath, give oxygen. Ensure that medical personnel are aware of

the material(s) involved, and take precautions to protect themselves.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove any contact lenses and open eyes wide apart. If eye irritation persists: Get medical

advice/attention.

Skin Contact Wash skin with soap and water. If irritation persists, seek medical attention.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if necessary.

Ingestion Rinse mouth thoroughly with water. If ingestion of a large amount does occur, call a poison

control center immediately.

Most important symptoms and effects

Symptoms Causes serious eye irritation. May cause drowsiness or dizziness. Prolonged or repeated

contact may dry skin and cause irritation. May cause corneal burn. Can cause defatting of skin tissue. Prolonged or repeated skin contact may result in dermatitis (red, dry skin).

Indication of any immediate medical attention and special treatment needed

Notes to Physician In case of shortness of breath, give oxygen. Keep victim warm. Symptoms may be delayed.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water. Foam. Dry chemical. Carbon dioxide (CO2).

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

Specific Hazards Arising from the Chemical

Combustible. During fire, gases hazardous to health may be formed. Solvent vapors may form mixtures with air. Fire may produce irritating and/or toxic gases.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO2).

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Keep people

away from and upwind of spill/leak. Ventilate closed spaces before entering. Wear suitable protective clothing. Avoid inhalation of vapors and contact with skin and eyes. Local

authorities should be advised if significant spillages cannot be contained.

Environmental Precautions See Section 12 for additional Ecological Information. Avoid discharge into drains, water

courses or onto the ground.

Methods and material for containment and cleaning up

Methods for Containment Eliminate all ignition sources. Prevent entry into waterways, sewer, basements or confined

areas.

Methods for Clean-Up Collect with absorbent, non-combustible material in to suitable containers. Clean surface

thoroughly to remove residual contamination. Should not be released into the environment.

Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Wash face, hands, and any exposed skin thoroughly after handling. Wear eye/face

protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

Avoid contact with skin and eyes. Avoid prolonged exposure.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from

freezing. Protect from direct sunlight. Keep out of the reach of children. Keep away from

food, drink and animal feeding stuffs. Store away from incompatible materials.

Incompatible Materials Strong oxidizing agents. Acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH

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Isopropyl Alcohol STEL: 400 ppm TWA: 400 ppm IDLH: 2000 ppm TWA: 980 mg/m³ TWA: 200 ppm TWA: 400 ppm 67-63-0 (vacated) TWA: 400 ppm TWA: 980 mg/m³ (vacated) TWA: 980 mg/m³ STEL: 500 ppm STEL: 1225 mg/m³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m³

Appropriate engineering controls

Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control

airborne levels below recommended exposure limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles).

Skin and Body Protection Wear protective gloves.

Respiratory Protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

General Hygiene Considerations Avoid contact with eyes and skin. Keep away from food and drink. Handle in accordance

with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid

Appearance Slightly viscous liquid Odor Sweet Slight alcohol **Odor Threshold** Color Clear Not available

Remarks • Method Property Values

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Meltina Point/Freezina Point Not determined Not available

Boiling Point/Boiling Range Not available Flash Point 60 °C / 140 °F **Evaporation Rate** Not available Flammability (Solid, Gas) Not determined **Upper Flammability Limits** Not available **Lower Flammability Limit** Not available **Vapor Pressure** Not available **Vapor Density** Not available **Specific Gravity** Not available **Water Solubility** Not miscible Solubility in other solvents Not determined **Partition Coefficient** Not available **Auto-ignition Temperature** Not available **Decomposition Temperature** Not available **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Heat, flames and sparks. High temperature and sources of ignition. Incompatible Materials.

Incompatible Materials

Strong oxidizing agents. Acids.

Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide (CO2).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Causes serious eye irritation.

Skin Contact Prolonged contact may cause redness and irritation.

Inhalation Do not inhale.

Ingestion Do not taste or swallow.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl Alcohol	= 4396 mg/kg (Rat)	= 12800 mg/kg (Rat) = 12870	= 72.6 mg/L (Rat) 4 h
67-63-0		mg/kg (Rabbit)	
Proprietary	= 1540 mg/kg (Rat)	> 2400 mg/kg (Rat) > 4640 mg/kg	> 12.7 mg/kg (Rat) 4 h > 17.6
		(Rabbit) = 794 μL/kg (Rabbit)	mg/L (Rat)1h

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

However, the product as a whole has not been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl Alcohol		Group 3		X
67-63-0				

Legend

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Numerical measures of toxicity

Not determined

Unknown Acute Toxicity 3.12% of the mixture consists of ingredient(s) of unknown toxicity.

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12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Isopropyl Alcohol 67-63-0	1000: 96 h Desmodesmus subspicatus mg/L EC50 1000: 72 h Desmodesmus subspicatus mg/L EC50	9640: 96 h Pimephales promelas mg/L LC50 flow- through 11130: 96 h Pimephales promelas mg/L LC50 static 1400000: 96 h Lepomis macrochirus µg/L LC50		13299: 48 h Daphnia magna mg/L EC50
Proprietary		500: 96 h Brachydanio rerio mg/L LC50 1000: 96 h Lepomis macrochirus mg/L LC50		25.2: 24 h Daphnia magna mg/L EC50

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Isopropyl Alcohol	0.05
67-63-0	

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Isopropyl Alcohol	Toxic
67-63-0	Ignitable

14. TRANSPORT INFORMATION

According to 49 CFR §173.150(f)(1), this material should be reclassified as "NA1993, Note

Combustible Liquid, N.O.S." if it is shipped in bulk. Please see current shipping paper for

most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated

<u>IATA</u> Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies DSL Complies

NDSL Does not comply

EINECS Complies

ELINCS Does not comply

ENCSCompliesIECSCCompliesKECLCompliesPICCSDoes not comply

AICS Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardYesFire HazardYesSudden Release of Pressure HazardNoReactive HazardNo

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Isopropyl Alcohol - 67-63-0	67-63-0	10-20	1.0

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Isopropyl Alcohol	X	X	X
67-63-0			

16. OTHER INFORMATION

NFPAHealth HazardsFlammabilityInstabilitySpecial Hazards220Not determinedHMISHealth HazardsFlammabilityPhysical HazardsPersonal Protection2*20Not determined

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Revision Note: New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet
