

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

1.1. Product Identifier

Product Form: Mixture

Product Name: Radians / VisionAid Rainbow Lens Cleaner

Product Codes: 1LCL211B, 1LCL211E, 1LCL2112, 1LCL211C, 1LC1776DU, 1LC5000D, 1LCD382D, 1LCL211A, 1LC600, 1LC1200, LCS080600, LCS161200

1.2. Intended Use of the Product

Use of the Substance/Mixture: Cleaning of eye and face protection lenses.

1.3. Name, Address, and Telephone of the Responsible Party

Supplier

Radians

5305 Distriplex Farms Drive

Memphis, TN 38141

T 877-723-4267

www.radians.com

1.4. Emergency Telephone Number

Emergency number

1-800-222-1222 – Poison Control

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

US Classification per GHS and OSHA HCS 29 CFR 1910.1200

Hazard Class	Category	Hazard Statement	Precautionary Statements
Flammable Liquids	4	H227	P210, P280, P370+P378, P403, P501
Eye Damage / Irritation	2A	H319	P264+P265, P280, P305+P351+P338, P337+P317
Specific target organ toxicity, single exposure; Respiratory tract irritation	3	H335, H336	P261, P271, P304+P340, P319, P403+P233, P405, P501

Full text of hazard classes and H-statements : see section 16

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)

:



GHS07

Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

: H227 - Combustible liquid.

H319 - Causes serious eye irritation.

H335 - May Cause Respiratory Irritation.

H336 - May cause drowsiness or dizziness.

Precautionary Statements (GHS-US)

: P210 - Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking.

P261 - Avoid breathing vapors, mist, or spray.

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P264+P265 - Wash hands thoroughly after handling. Do not touch eyes.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing, and eye protection.
P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P319 - Get medical help if you feel unwell.
P337+P317 - If eye irritation persists: Get medical help.
P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, or carbon dioxide (CO₂) to extinguish.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	%	GHS-US classification
Isopropyl alcohol	(CAS No) 67-63-0	6-8%	Flam. Liq. 3, H226 Eye Irrit. 2A, H319 STOT SE 3, H335, H336
Water	(CAS No) 7732-18-5	88-90%	Not classified
Sodium Laryl Sulfate	(CAS No.) 151-21-3	2-3%	Eye Irrit. 2A, H319

Specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: Remove victim to fresh air. If irritation persists, seek medical attention.

First-aid Measures After Skin Contact: Remove contaminated clothing and wash before reuse. Thoroughly wash skin with soap and water. Wash clothing before reuse. Get medical attention if irritation persists.

First-aid Measures After Eye Contact: Immediately flush eyes thoroughly with constantly running water for 15 minutes, lifting the upper and lower eyelids and rotating the eyeball. If contacts are worn, remove contact lenses after 5 minutes and continue to rinse for 15 to 20 minutes. Get immediate medical attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY. Do NOT give liquids to an unconscious or convulsing person.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Causes serious eye irritation. May cause drowsiness and dizziness.

Symptoms/Injuries After Inhalation: High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

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Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None known.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂). Water may be ineffective but water should be used to keep fire-exposed container cool.

Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Combustible liquid

Explosion Hazard: Not applicable under normal conditions

Reactivity: Stable at ambient temperature and under normal conditions of use. Do not heat above 80 °C (176 °F).

5.3. Advice for Firefighters

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

Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

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

Hazardous Combustion Products: Carbon oxides (CO, CO₂). irritating fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid breathing (vapor, mist, spray). Do not get in eyes, on skin, or on clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Avoid all contact with skin, eyes, or clothing.

6.1.1. For Non-Emergency Personnel

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

Emergency Procedures: Eliminate ignition sources. Stop leak if safe to do so. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Evacuate unnecessary personnel. Ventilate area.

6.1.2. For Emergency Responders

Same as above

6.2. Environmental Precautions

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

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Absorb and/or contain spill with inert material, then place in suitable container. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up any spills as soon as possible, using an absorbent material to collect it. For large or bulk quantities, after absorption with inert material, collect spillage by sweeping up spilled material and place in a labeled, sealed container for proper disposal. Use only non-sparking tools. Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable.

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Avoid breathing vapors, mist, spray. Take precautionary measures against static discharge. Keep away from heat and open flame. Avoid contact with skin, eyes and clothing.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

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Storage Conditions: Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in a well-ventilated place. Keep container tightly closed.

Incompatible Products: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

Cleaning of optical products and lenses

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: OSHA, ACGIH, or NIOSH.

Isopropyl alcohol (67-63-0)		
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm (980 mg/m ³)
USA OSHA	Carcinogenic Classification	IARC-3 Not classifiable as a human carcinogen
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	400 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	400 ppm (980 mg/m ³)
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	500 ppm (1225 mg/m ³)
USA IDLH	US IDLH (ppm)	2000 ppm (10% LEL)

Reference: OSHA.gov/chemical data

8.2. Exposure Controls

Appropriate Engineering Controls	: Ensure adequate ventilation, especially in confined areas. Follow protocols for handling combustible liquids when in bulk liquid form.
Personal Protective Equipment	: Not generally required. The use of additional personal protective equipment may be necessary as conditions warrant.
Materials for Protective Clothing	: Not required for normal conditions of use. Wear suitable protective clothing.
Hand Protection	: Chemically resistant gloves are recommended, but not required.
Eye Protection	: Not required for normal conditions of use. Use eye protection when handling as a bulk liquid.
Skin and Body Protection	: Not required for normal conditions of use. Wear suitable protective clothing when handling as a bulk liquid.
Respiratory Protection	: Not required for normal conditions of use. If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.
Other Information	: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Clear
Odor	: Slight alcoholic
Odor Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: 200°F (93°C)
Flash Point	: 115°F (46°C)
Auto-ignition Temperature	: 750°F (399°C) (Isopropanol)
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: 1

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Relative Density	: 0.98
Solubility	: Water: Miscible
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available

9.2. Other Information: VOC Content- 8%

SECTION 10: STABILITY AND REACTIVITY

- 10.1. **Reactivity:** Stable at ambient temperature and under normal conditions of use. Do not heat above 80 °C (176 °F). Reacts violently with strong oxidizers.
- 10.2. **Chemical Stability:** Combustible liquid. May form flammable or explosive vapor-air mixture if heated.
- 10.3. **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. **Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.
- 10.5. **Incompatible Materials:** Strong acids, strong bases, strong oxidizers.
- 10.6. **Hazardous Decomposition Products:** None known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity: Not classified

Isopropyl alcohol (67-63-0)

LD50 Oral Rat	>5000 mg/kg
LD50 Dermal Rabbit	>5000 mg/kg
LC50 Inhalation Rat	73 mg/l/4h

Sodium Lauryl Sulfate (151-21-3)

LD50 Oral Rat	1200 mg/kg
LD50 Dermal Rabbit	>2000 mg/kg, 24 hours
LC50 Inhalation Rat	>5000 mg/l/1h

Skin Corrosion/Irritation:	Not Classified
Serious Eye Damage/Irritation:	Causes serious eye irritation
Respiratory or Skin Sensitization:	Not Classified
Germ Cell Mutagenicity:	Not Classified
Carcinogenicity:	Not Classified
Reproductive Toxicity:	Not Classified
Specific Target Organ Toxicity (Single Exposure):	May cause drowsiness or dizziness.
Specific Target Organ Toxicity (Repeated Exposure):	Not Classified
Aspiration Hazard:	Not Classified
Symptoms/Injuries After Inhalation:	High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms.
Symptoms/Injuries After Skin Contact:	Prolonged exposure may cause skin irritation.
Symptoms/Injuries After Eye Contact:	Contact causes severe irritation with redness and swelling of the conjunctiva.
Symptoms/Injuries After Ingestion:	Ingestion may cause adverse effects.
Chronic Symptoms:	None known.

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Not classified.

Isopropyl alcohol (67-63-0)

Type	Subject	Value	Time
LC50 Fish	Pimephales promelas	9640 mg/l	96 hours
LC50 Aquatic Invertebrates	Daphnia magna	>10,000 mg/l	48 hours
EC50 Aquatic Plants	Scenedesmus subspicatus	>1000 mg/l	72 hours

Sodium Lauryl Sulfate (151-21-3)

Type	Subject	Value	Time
EC50 Crustacea	Water Flea (Ceriodaphnia dubia)	1.18 - 2.21 mg/l	48 hours
EC10 Algae	Algae	5.4 mg/l	72 hours
NOEC Crustacea	Daphnia	.508 mg/l	7 days
NOEC Fish	Fish	>1.357 mg/l	42 days

- 12.2. Persistence and Degradability: Product is Biodegradeable
12.3. Bioaccumulative Potential: No Data Available
12.4. Mobility in Soil: No Data Available
12.5. Other Adverse Events: No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

- Sewage Disposal Recommendations: Do not dispose of waste into sewer
Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.
Additional Information: Handle empty containers with care because residual vapors are flammable.
Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

US:

Not regulated as hazardous material for puposes of domestic transport per 49 CFR 173.150(e)2 due to water content >50%.

International

- Proper Shipping Name : FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL SOLUTION), 3, PGIII
Hazard Class : 3
Identification Number : UN1993
Label Codes : 3
Packing Group : III

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

All components of this product are in compliance with the Toxic Substance Control Act (TSCA)

SARA 302 components: No ingredients are subject to reporting.

SARA 311/312 Hazard Categories:

- Acute Health Hazard: Yes
Chronic Health Hazard: No
Fire Hazard: Yes

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Sudden Release of Pressure Hazard: No

Reactive Hazard: No

SARA 313 components: Isopropyl Alcohol (CAS: 67-63-0)

15.2. US State Regulations

Massachusetts Right to Know: Isopropyl Alcohol (CAS: 67-63-0)

New Jersey Right to Know: Isopropyl Alcohol (CAS: 67-63-0)

Pennsylvania Right to Know: Isopropyl Alcohol (CAS: 67-63-0)

California Prop 65 components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

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:

H227 - Combustible liquid.

H319 - Causes serious eye irritation.

H335 - May Cause Respiratory Irritation.

H336 - May cause drowsiness or dizziness.

P210 - Keep away from heat, hot surface, sparks, open flames, and other ignition sources. No smoking.

P261 - Avoid breathing vapors, mist, or spray.

P264+P265 - Wash hands thoroughly after handling. Do not touch eyes.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves, protective clothing, and eye protection.

P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P319 - Get medical help if you feel unwell.

P337+P317 - If eye irritation persists: Get medical help.

P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, or carbon dioxide (CO₂) to extinguish.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

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.