



VisionAid Rainbow Lens Cleaner

Safety Data Sheet

According to Regulation OSHA 29CFR 1910.1200

Date of issue: 02/04/2013

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Version: 1.2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product form	Mixture
Product name	VisionAid Rainbow Lens Cleaner
Product code	1LCL211B, 1LCL211E, 1LCL2112, 1LCL211C, 1LC1776DU, 1LC5000D, 1LC382D, 1LCT100, 1LCT200
Synonyms	VisionAid Rainbow II
Product group	Consumer use

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Intended for general public	
Main use category	Consumer use
Use of the substance/mixture	Cleaner
Function or use category	Cleaning/washing agents and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Radians, Inc.
5305 Distriplex Farms Drive
Memphis, TN 38141

T 877-723-4267

salesfax@radians.com

www.radians.com

1.4. Emergency telephone number

Emergency number : 800-268-9017 - Poison Information Center
INFOTRAC

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation OSHA (29CFR, 1910.1200)

Health Hazards	H303+H313+H333+H320	May be harmful if swallowed, comes in contact with skin or if inhaled. May cause minor eye irritation.
Physical Hazards	None Identified	
Other Hazards	None Identified	

Full text of P- and H-phrases: see section 16

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Eye Irritant 2 H319

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC Xi;
R36

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP)	Warning
Hazard statements (CLP)	H319 - Causes serious eye irritation
Precautionary statements (CLP)	P102 - Keep out of reach of children P264 - Wash hands thoroughly after handling P280 - Wear eye protection, protective gloves P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337+P313 - If eye irritation persists: Get medical advice/attention

2.3. Other hazards

No additional information available

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	Product Identifier	%	Classification according to Regulation OSHA (29CFR, 1910.1200)
Isopropyl alcohol	(CAS No.) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0	10	Combust. Liq. 2, H227 Eye Irrit. 2, H320
Sodium lauryl sulfate	(CAS No.) 151-21-3 (EC no) 205-788-1	2.5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H316 Eye Irrit. 2, H320

Full text of R-, H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.
First-aid measures after skin contact	Wash skin thoroughly with mild soap and water. Obtain medical attention if irritation develops or persists.
First-aid measures after eye contact	Immediately rinse with water for a prolonged period (at least 15 minutes) while holding the eyelids wide open. Obtain medical attention if irritation develops or persists.
First-aid measures after ingestion	Do not induce vomiting. Seek medical attention if a large amount is swallowed.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries	Causes eye irritation.
Symptoms/injuries after inhalation	Overexposure may be irritating to the respiratory system. In high concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination.
Symptoms/injuries after skin contact	May cause mild skin irritation.
Symptoms/injuries after eye contact	Causes eye irritation. Liquid and vapors may cause excess blinking and tear production.
Symptoms/injuries after ingestion	If a large quantity has been ingested: Headache. Nausea. Vomiting. Abdominal pain.
Chronic symptoms	Repeated or prolonged skin contact may cause dermatitis and defatting.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Powder, alcohol-resistant foam, water spray, carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard	Combustible liquid. Under conditions of fire this material may produce: Carbon dioxide (CO ₂). Carbon monoxide.
Explosion hazard	Product is not explosive.
Reactivity	Stable at ambient temperature and under normal conditions of use. Do not heat above 80 °C (176 °F).

5.3. Advice for firefighters

Firefighting instructions	Keep upwind. Do not breathe fumes from fires or vapors from decomposition. Vapors may cause drowsiness and dizziness. Evacuate unnecessary personnel. On heating, there is a risk of bursting due to internal pressure build-up. Cool down the containers exposed to heat with a water spray.
Protection during firefighting	Use normal individual fire protective equipment. Wear full fire-fighting turnout gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	Not needed under normal usage conditions
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

No additional information available

6.2. Environmental precautions

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

6.3. Methods and material 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

For further information refer to section 8 "Exposure controls/personal protection".

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	Handling large quantities of product: Proper grounding procedures to avoid static electricity should be followed. Keep away from heat and open flame.
Hygiene measures	Handle in accordance with good industrial hygiene and safety procedures. Wash hands thoroughly after handling. Read label before use.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Store away from direct sunlight or other heat sources. Protect from freezing.
Incompatible materials	Strong oxidizers.
Storage temperature	< 40 °C (< 104 °F)

7.3. Specific end use(s)

Cleaner

SECTION 8: Exposure controls/personal protection

8.1. Exposure Limits

Mixture has no listed exposure limits.

8.2. Appropriate engineering controls

Good mechanical ventilation may be adequate for maintaining airborne concentrations below established exposure limits for large uncontrolled releases. If exposure limits are exceeded and inhaled: use a NOISH approved respirator.

8.3 Individual protection measures and personal protective equipment

General Hygiene	Practice good industrial hygiene. Wash hands before breaks and at the end of the workday. Keep product away from foodstuffs. Wash and launder all contaminated clothing before reuse.
Hand protection	Not required for normal conditions of use.
Eye protection	Not required for normal conditions of use.
Skin and body protection	Not required for normal conditions of use.
Respiratory protection	Not required for normal conditions of use. An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits.
Environmental exposure controls	Ensure adequate ventilation, especially in confined areas.
Consumer exposure controls	Not required for normal conditions of use.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear
Colour	Blue
Odour	Slight alcoholic
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	-6 °C (21 °F)
Freezing point	No data available
Boiling point	93 °C (200 °F)
Flash point	82 °C (180 °F)
Self ignition temperature	399 °C (750 °F) (Isopropanol)
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	20 mm Hg (at 20 °C / 68 °F)
Relative vapour density at 20 °C	1
Relative density	0.98
Solubility	Water: Miscible
Log Pow	No data available
Log Kow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	None known.
Oxidising properties	None known.
Explosive limits	2.5 - 12 vol % (Isopropanol)

9.2. Other information

VOC content	10 %
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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).

10.2. Chemical stability

Stable at standard temperature and pressure.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat. Open flame.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Under conditions of fire this material may produce: Carbon monoxide. Carbon dioxide (CO₂).

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Not classified

Isopropyl alcohol (67-63-0)

LD50 oral rat	4396 mg/kg
LD50 dermal rat	12800 mg/kg
LD50 dermal rabbit	12870 mg/kg
LC50 inhalation rat (mg/l)	72.6 mg/l (Exposure time: 4 h)

Sodium lauryl sulfate (151-21-3)

LD50 oral rat	1288 mg/kg
LD50 dermal rabbit	580 mg/kg
LC50 inhalation rat (mg/l)	> 3900 mg/m ³ (Exposure time: 1 h)

Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	Not Classified
Aspiration hazard	Not classified

SECTION 12: Ecological information

12.1. Toxicity

Isopropyl alcohol (67-63-0)

LC50 fishes 1	9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	> 1000 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)
LC50 fish 2	11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 other aquatic organisms 2	> 1000 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)

Sodium lauryl sulfate (151-21-3)

LC50 fishes 1	8 - 12.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	1.8 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	53 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)
LC50 fish 2	15 - 18.9 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 other aquatic organisms 2	30 - 100 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)

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12.2. Persistence and degradability

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Persistence and degradability	Product is biodegradable.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not expected to bioaccumulate.
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Isopropyl alcohol (67-63-0)

Log Pow	0.05 (at 25 °C)
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Sodium lauryl sulfate (151-21-3)

BCF fish 1	(will not bioconcentrate)
Log Pow	1.6

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

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 waste material in accordance with all local, regional, national, and international regulations.
Additional information	Empty containers may be recycled after cleaning.

SECTION 14: Transport information

14.1. UN number

No dangerous good in sense of transport regulations.

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information No supplementary information available.

14.6. Special precautions for user

None

14.6.1. Overland transport

No additional information available

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14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

SECTION 15: Regulatory information

15.1. United States Federal Regulations

SARA 302 components No ingredients are subject to reporting
SARA 313 components Isopropyl Alcohol (CAS: 67-63-0)

15.1.1. Specific 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.
California ARB classification	Anti-Static Product, Meets California BOV requirements
VOC content	10%

SECTION 16: Other information

Full text of H- + P- Phrases

H227	Combustible liquid
H303	Harmful if swallowed
H313	Causes skin irritation
H320	Causes serious eye irritation
H333	May cause respiratory irritation
H336	May cause drowsiness or dizziness
P305	If in eyes: rinse cautiously with water for several minutes
P351	Remove contact lenses if present and easy to do
P338	Continue rinsing for several minutes
P337+P313	If eye irritation persists: Get medical advice/attention

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.