

# MATERIAL SAFETY DATA SHEET

**Identity:** Visionaid Rainbow II

**Company Product Code:** 1LCL211B, 1LCL211BR, 1LCL211E, 1LCL2112, 1LCL211C, 64051430, 1LC1776DU, 1LC5000D, 1LC3000D, 1LC382D, 1LCT200, 1LCT100, 1LCW100, 1WK100DO.

**Sizes:** 3.8L (128 fl. oz.), 473 ml (16 fl. oz.), 103 ml (3.5 fl. oz.), 59 ml (2 fl. oz.)

**Product Use:** Lens Cleaner

**Supplier:** VisionAid, Inc.  
11 Kendrick Rd.  
Wareham, Ma. 02571

**Information Phone** 1-800-426-1881 (business hours)  
**Fax** 1-508-295-3521

**Emergency Phone** 1-800-268-9017 (Poison Information Center)

**Date Prepared** June 2011  
**Prepared by** VisionAid Inc.

## Section II Material Identification and Information

Components (Chemical Names & Common Names) (Hazardous Components 1 % or greater, Carcinogens 0.1% or greater)	CAS #'s	%	OSHA	ACGIH	OTHER
Isopropanol	67-63-0	10			
Sodium Dodecyl Sulphate	151-21-3	2.5			
Hydrogen Hydroxide	7732-18-5	87.5			
Pylaklor Turquoise Blue S-400	N/A mixture	.0036			

## Section III Physical / Chemical Characteristics

Physical State: Liquid	Specific Gravity (H <sub>2</sub> O=1) 1.00
PH Factor: N/A	Freezing point: -6°C (21°F)
Boiling Point: 93°C (200°F)	Melting Point: -6°C (21°F)
Vapor Pressure 20 mmHg at 20°(68°F)	Evaporation Rate: 0.99
Vapor Density 1	Water Reactive: None
Solubility in Water: 100%	Specific Gravity (Relative Density): 0.98
Percent Volatile: 10%	

**Appearance and Odor:** Clear blue solution. Slight alcoholic odor

## Section IV Fire and Explosion Data

Flash Point (Method Used): 82° C (180°F)	Auto-Ignition Temperature: N/A
Flammability Classification (29 CFR 1910.1200): Combustible Liquid	
Flammability Limits in Air Lower: 2.5-12.0 (Isopropanol)	LEL: N/A
Autoflammability and Autoignition Temperature: 456°C (852°F) (Isopropanol)	

**Extinguisher Media:** Carbon Dioxide, Water, Foam

**Special Fire Fighting Procedures:** None

**Unusual Fire and Explosion Hazards:** None

## Extinguishing Media

**Suitable Extinguishing Media:** Alcohol foam, dry chemical, carbon dioxide, water fog.

<b>Section V</b>		<b>Reactivity Data</b>
Stability	Unstable: No Stable: Yes	Conditions to Avoid: High temperatures, flame and other ignition sources
Incompatibility (Materials to Avoid): Strong Oxides of carbon		
Hazardous Decomposition Products: Oxides of carbon (CO <sub>x</sub> ).		
Significance of change in physical appearance: Under severely cold temperatures product may begin to turn cloudy which may degrade its functionality.		
Conditions Of Reactivity: Do not heat above 80°C (176°F).		
<b>Section VI</b>		<b>Health Hazard Data-Potential Acute Health Affects</b>
<u>INHALATION</u>		
Single Exposure Severity, Target Organs and Type of Effect: High levels may cause headache, nausea, dizziness.		
Repeated Exposure Severity, Target Organs and Type of Effect: No longterm effects expected.		
<u>INGESTION</u>		
Single Exposure Severity, Target Organs and Type of Effect: Mildly toxic by ingestion. May cause nausea, headache and vomiting.		
<u>SKIN ABSORPTION</u>		
Single Exposure Severity, Target Organs and Type of Effect: No effects expected.		
<b>Section VII - Health Hazard Data</b>		
Eye Contact: Flush with plenty of water for at least fifteen minutes. If irritation persists, consult a physician.		
Repeated Exposure Severity, Target Organs and Type of Effect: Corneal thickening leading to scarring from repeated eye contact.		
Skin Contact: May cause mild irritations, drying out of skin. Wash thoroughly with soap and water.		
Inhalation: Move to fresh air. If dizziness persists, consult physician.		
Ingestion: May cause stomach discomfort if ingested. Seek medical advice.		
<b>Section VIII – Control and Protective Measures</b>		
Respiratory Protection (Specify Type): None		
Hygiene recommendations to prevent continued exposure: Use normal good industrial hygiene Practices		
Protection Gloves: None		Eye Protection: Safety Glasses
Ventilation to be used: N/A	Local Exhaust: N/A	Special: N/A
	Mechanical (General): N/A	Other: N/A
Other Protective Clothing and Equipment: Not required.		
Hygienic Work Practices: Always read label before use.		
<b>Section IX- Precautions for Safe Handling and Use/Leak Procedures</b>		
Steps to be taken if Material is Spilled or Released: Mop up using large amounts of water. Flush Down sanitary sewer.		
Waste Disposal Methods: In accordance with municipal, provincial and federal regulations.		

Precautions to be taken in handling and storage: Keep away from excessive heat.	
Other Precautions and/or Special Hazards: Keep from freezing. Read label before using.	
HMIS Rating:	Health: 1 Flammability: 1 Reactivity: 0 Personal Protection: b
NFPA Rating:	Health: 1 Flammability: 1 Reactivity: 0 Special: 0
<b>CANADIAN REGULATIONS</b>	
WHMIS Class: B3 – Combustible liquid	
WHMIS Class: D2B- Toxic: Eye/Skin Irritant.	
<b>FIRE FIGHTING MEASURES</b>	
<b>FLAMMABLE PROPERTIES</b>	
Flammability Classification (29 CFR 1910.1200): Combustible liquid.	
Flash Point and Method: 82° C (180°F)	
Flammable Limits in Air- 2.5% -12.0% (Isopropanol)	
AutoFlammability and Autoignition Temperature: 456°C (852°F) (Isopropanol)	
<b>EXTINGUISHING MEDIA</b>	
Suitable Extinguishing Media: Alcohol foam, dry chemical, carbon dioxide, water fog.	
<b>ACCIDENTAL RELEASE MEASURES</b>	
Containment Technique:	Prevent from entering waterways and storm sewers.
Clean-Up Technique:	Contain spill. Cover spill with inert absorbent (absorbball, vermiculate). Using non-sparking tools, shovel or sweep up into a clean container. Remove from area. spill area with water.
Evacuation Procedures:	Follow normal Emergency Response Plan ( ERP).
<b>HANDLING AND STORAGE</b>	
<b>HANDLING</b>	
Handling Practices:	Use grounding wires if transferring large quantities. Keep away from oxidizers, heat and other ignition sources. Do not allow to freeze.
<b>STORAGE</b>	
Conditions For Safe Storage:	Keep away from oxidizers, heat and other ignition sources. Do not store in direct sunlight. Store in cool, dry well-ventilated area. Do not allow to freeze.
Ventilation Requirements For Storage:	None required.
Storage Temperature Range:	Below 40°C (104°F)
Storage Humidity Range:	Not applicable
Quantity Limits for Safe Storage:	Not applicable
Special Materials To Be Used For Packaging or Containers:	Not applicable
Transport Information:	Not regulated
<b>NOTE</b>	
Training Requirements: Workplace Hazardous Materials Information System training is required for handling and using this product in Canadian workplaces. U.S. OSHA requirements for handling chemical substances must be in place for handling and using this product in the United States.	
Recommended Uses and Restrictions: Cleaning of clear surfaces. Check for compatibility with material to be cleaned prior to use.	

CAN PACKAGING BE RECYCLED?:	<input checked="" type="checkbox"/> Y	Y=YES, N=NO, U=UNKNOWN Triple rinsed containers may be recycled.
CAN PACKAGING BE RECLAIMED?:	<input type="checkbox"/> N	Y=YES, N=NO, U=UNKNOWN
CAN PACKAGING BE LANDFILLED?:	<input checked="" type="checkbox"/> Y	Y=YES, N=NO, U=UNKNOWN
PHYSICAL/CHEMICAL PROPERTIES RELATED TO DISPOSAL OPTIONS:	<b>Not available</b>	
For additional PHYSICAL/CHEMICAL characteristics see SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES.		
<b>TRANSPORT INFORMATION</b>		
SPECIAL SHIPPING INSTRUCTIONS AND PRECAUTIONS –WITHIN PREMISES:	<b>Not Regulated.</b>	
SPECIAL SHIPPING INSTRUCTIONS AND PRECAUTIONS – OFF PREMISES:	<b>Not Regulated.</b>	
DOT	<b>Not Regulated.</b>	
TDG CLASSIFICATION/DESCRIPTION	<b>Not Regulated.</b>	
CLASSIFICATION/DESCRIPTION UNDER OTHER INTERNATIONAL TRANSPORTATION REGULATIONS:	<b>Not Regulated.</b>	
<b>REGULATORY INFORMATION</b>		
<b>U. S. FEDERAL REGULATIONS</b>		
OSHA:	<b>This product is classified as an Eye and Skin Irritant under the OSHA standard classification system.</b>	
TSCA (Toxic Substances Control Act):	<b>Ingredients of this product are on the U.S. TSCA.</b>	
FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act):	<b>Not applicable</b>	
CERCLA (Comprehensive Environmental Response, Compensation, And Liability Act):	<b>Not listed.</b>	
EPCRA (SARA Title III [Superfund Amendments And Reauthorization Act]):	<b>Not listed.</b>	
CAA (Clean Air Act):	<b>Not listed.</b>	
CWA (Clean Water Act):	<b>Not listed.</b>	
FDA/USDA (Food and Drug Act):	<b>Not applicable</b>	
NFPA (National Fire Protection		

Association): **NFPA Classification Fire=1 (slightly flammable), Health =1 (slightly hazardous), Reactivity -0 (Stable)**  
**0 = Least, 1=Slight, 2=Moderate, 3=High, 4 = Extreme**  
**This information is intended solely for the use of individuals trained in the particular system.**

**U.S. STATE REGULATIONS**

**RIGHT TO KNOW REQUIREMENTS (STATE AND SUBSTANCE):**

Florida Hazardous Substances List: Isopropanol  
 Massachusetts Right-To-Know List: Isopropanol  
 Minnesota Hazardous Substances List: Isopropanol  
 New Jersey Right-To-Know List: Isopropanol sn 1076  
 New Jersey Right-To-Know Special Hazardous Substance: Isopropanol (flammable-third degree) {new}.  
 Pennsylvania Right-To-Know List: Isopropanol environmental hazard, Listed as: [2-Propanol]  
 California Director's List of Hazardous Substance: Isopropanol

**CANADIAN REGULATIONS**

**WHMIS (Workplace Hazardous Material Information System):**

WHMIS Class: B3 – Combustible liquid  
 WHMIS Class: D2B – Toxic: Eye/Skin Irritant.

**CEPA (Canadian Environmental Protection Act) / DSL (Domestic Substances List):**

All the ingredients of this product are on the Canadian DSL as required by CEPA.

**INTERNATIONAL REGULATIONS**

**EUROPE:**

European Inventory of Existing Commercial Chemical Substances (EINECS)  
 Council Directive 67/548/EEC of June 1967 as amended by Directive 79/831/EEC

**UNITED KINGDOM:**

Health and Safety Executive (HSE) Occupational Exposure Standards (OESs) -1992  
 Time Weighted Average: 400 ppm TWA; 980 mg/m<sup>3</sup> TWA  
 Short Term Exposure Limit: 500 ppm STEL; 1225 mg/m<sup>3</sup> STEL  
 Skin Absorption/Sensitization: can be absorbed through the skin.  
 Listed in United Kingdom OESs: {Propan-2-ol}

**JAPAN:**

Chemical Substance Control Law (MITI)

**AUSTRALIA:**

This information applies to Isopropanol only:  
 National Occupational Health and Safety Commission (NOHSC) Exposure Standards For Atmospheric Contaminants In The Occupational Environment -1991  
 Time Weighted Average/Peak Limitation: 400 ppm TWA; 983mg/m<sup>3</sup> TWA  
 Short Term Exposure Limit: 500 ppm STEL; 1230 mg/m<sup>3</sup> STEL  
 Exposure Standard Under Review: exposure limits under review

**GERMANY:**

This information applies to Isopropanol only:  
 Deutsche Forschungsgemeinschaft (DFG) Maximum Concentrations at The Workplace (MAK) and Biological Tolerance Values for Working Materials (BAT) -1993  
 MAK Value: 400 ppm MAK; 980 mg/m<sup>3</sup> MAK  
 Peak Limitation: 2x normal MAK; (30 min. average value); don't exceed 4 times during shift  
 Embryotoxicity/Fetotoxicity: classification not yet possible.  
 Embryotoxicity/Fetotoxicity: classification not yet possible.

**ISRAEL:**

This information applies to Isopropanol only:  
 Occupational Exposure Limits for Chemical Substance – 1990  
 Time Weighted Average: 400 ppm TWA; 983 mg/m<sup>3</sup> TWA

Short Term Exposure Limit: 500 ppm STEL; 1230 mg/m<sup>3</sup> STEL  
Action Level: 200 ppm AL; 491.5 mg/m<sup>3</sup> AL

**MEXICO:**

This information applies to Isopropanol only:  
Secretariat of Labor and Social Welfare Instruction No. 10 Permissible  
Concentrations – 1992  
Time Weighted Average: 400 ppm TWA; 980 mg/m<sup>3</sup> TWA {new}

Short Term Exposure Limit: 500 ppm STEL; 1225 mg/m<sup>3</sup> {new}  
Skin Designation: skin – potential for cutaneous absorption {new}

**OTHER INTERNATIONAL  
REGULATIONS:**

Not available

**OTHER INFORMATION**

**REVISIONS (GIVE DATE AND  
SPECIFY CHANGES);**

Not applicable – first release

**HAZARD RATINGS:**

HMIS Classification: Fire = 1 (slightly flammable), Health =1 (slightly hazardous),  
Reactivity = 0 (stable), Personal Protection = b

0 = Least, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme

This information is intended solely for the use of individuals trained in the particular system.

**TRAINING REQUIREMENTS:**

Workplace Hazardous Materials Information System training is required for  
handling and using this product in Canadian Workplaces. U. S. OSHA  
requirements for handling chemical substances must be in place for handling  
and using this product in the United States.

**RECOMMENDED USED AND  
RESTRICTIONS:**

Cleaning of clear surfaces. Check for compatibility with material to be cleaned  
prior to use.

**ADDITIONAL INFORMATION:**

Keep out of reach of children.

**DISCLAIMER:**

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any kind, except that is accurate to the best of H. L. BOUTON CO., INC.'s  
knowledge, or obtained from sources believed to be accurate. H. L. BOUTON  
CO., INC. does not assume any legal responsibility for use or reliance upon  
the same. Customers are encouraged to conduct their own tests and  
investigations. Before using the product, please read and understand the  
label and the Material Safety Data Sheet.

**REFERENCES:**

1. The Regulation Respecting the Control of Biological and Chemical Agents  
made under Occupational Health and Safety Act, Ont. Reg.654/86.
2. International Agency for Research on Cancer, Monographs Evaluation for  
Carcinogenic Risk in Humans.
3. Text entitled "Dangerous Properties of Industrial Chemicals" by Sax, N.I.
4. The "Documentation of the Threshold Limit Values and Biological Exposure  
Indices" by the American Conference of /governmental Industrial Hygienists.
5. The Merck Index, An Encyclopedia of Chemicals.

6. The CCINFO System, Canadian Centre of Occupational Health and Safety.
7. RTECS database by the U. S. National Institute of Occupational Safety and Health.
8. New Jersey Department of Health Hazardous Substances Fact Sheet.
9. Canadian Environmental Protection Act, New Substances Notification Regulations – Domestic Substances List.
10. Original Supplier MSDS.

OTHER RELATED  
MANUFACTURER'S  
BROCHURES:

Not Available

KEY/LEGEND

Not available-means that the information for that field could not be obtained.  
Not applicable – means that the field in question does not pertain to this particular product due to the inherent nature of the product.

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