# MATERIAL SAFETY DATA SHEET

# **Section 1: Name of Chemical & Supplier Contact Details**

Identity: Visionaid Rainbow ®, Visionaid Rainbow II®

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

**Product Use: Lens Cleaner** 

**Supplier:** Pakex UK Plc Information Phone: 01707 384858

1 Prime Point. Fax: 01707 332838

Welwyn Garden City,

Hertfordshire, AL7 1FE Emergency Phone: 1-800-268-9017 (Poison Information Center)

# Section 2: Composition / Information on Ingredients Components (Chemical Names & Common Names) (Hazardous Components 1% or greater, Carcinogens 0.1% or greater Isopropanol 67-63-0 10

# 0.1% or greater 67-63-0 10 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 .0036 Mixture .0036

# **Section 3: Hazards Identification**

### Inhalation

Single Exposure Severity, Target Organs & Type of Effect: High levels may cause headache, nausea, and dizziness. No long-term effects expected.

### Ingestion

Single Exposure Severity, Target Organs & Type of Effect: Mildly toxic by ingestion. May cause nausea, headache and vomiting. No long-term effects expected

### Skin Absorption

Single Exposure Severity, Target Organs & Type of Effect: May cause mild irritation and dryness to skin

## **Section 4: First Aid Measures**

**Eye Contact:** Flush with plenty of water for at least fifteen minutes. If irritation persists, consult a physician

<u>Repeated Exposure Severity, Target Organs & Type of Effect</u>: Corneal thickening leading to scarring from repeated eye contact.

**Skin Contact:** May cause mile irritations, drying out of skin. Wash thoroughly with soap and water. **Inhalation:** Move to fresh air. If dizziness persists, consult physician.

<u>Ingestion:</u> May cause stomach discomfort if ingested. Induce vomiting, drink 2 glasses of water Seek Medical advice.

# **Section 5: Fire Fighting Measures**

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)

Auto Flammability and Auto-ignition Temperature: 456°C (825°F) (Isopropanol)

### Section 6: Accidental Release Measures

**Containment Technique:** Prevent from entering waterways and storm sewers.

<u>Clean-UP Technique</u>: Contain spill. Cover spill with inert absorbent (absorball, vermiculate). Using non- sparking tools, shovel or sweep up into a clean container. Remove from area. Flush spill area with water. <u>Evacuation Procedures</u>: Follow normal Emergency Response Plan (ERP)

# Section 7: Handling and Storage

<u>Handling Practices</u>: Use grounding wires if transferring large quantities. Keep away for oxidizers, heat and other ignition sources. Do not allow to freeze.

<u>Conditions for Storage</u>: Keep away fromoxidizers, heat and other ignition sources. Do not store in direct sunlight. Store in cool, dry well-ventilated area. Do not allow to freeze.

<u>Ventilation Requirements For Storage</u>: None required **Storage Temperature**: 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

# **Section 8: Exposure Controls / Personal Protection**

Respiratory Protection (Specify Type): None

Hygiene Recommendations to Prevent Continued Exposure: Use normal good industrial hygiene

practices

Protection Gloves: None

**Eye Protection:** Safety Glasses

<u>Ventilation to be Used</u>: N/A Local Exhaust: N/A Special: N/A

Mechanical (General): N/A Other: N/A

Other Protective Equipment: Not Required

**<u>Hygienic Work Practices</u>**: Always read the label before use.

# **Section 9: Physical and Chemical Properties**

Physical State: Liquid	Specific Gravity (H2O=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°C (68°F)	Evaporation Rate: 0.99
Vapor Density 1	Water Reactive: None
Solubility in Water: 100%	Specific Gravity (Relative Density): 98
Percent Volatile: 10%	

Appearance and Odor: Clear blue solution. Slight alcoholic odor

# Section 10: Stability and Reactivity

**Stability:** Unstable: No Stable: Yes

Conditions to Avoid: High temperatures, flame and other ignition sources

<u>Incompatibility (materials to avoid):</u> Strong oxides of carbon <u>Hazardous Decomposition Products</u>: Oxides of carbon (Cox)

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)

# Section 11: Toxicological Information

**Eyes:** Irritant with danger of eye injury – May irritate eyes **Skin:** Irritant – May cause mild irritations, drying out skin

**Inhalation**: Irritant – No long term effects expected

Ingestion: Irritant - Mildly toxic by ingestion, may cause nausea, headache & vomiting

# **Section 12: Ecological Information**

### **ECOTOXICITY**

<u>Acute and Long Term Toxicity to Fish and Invertebrates</u>: Solutions of alcohols. Are toxic to aquatic life at moderate to low concentrations. No long-term ecological effects are likely.

<u>Toxicity to Aquatic and Terrestrial Plants:</u> Concentrated solutions of alcohols and surfactants may cause damage to aquatic and terrestrial plants.

Acute and Dietary Toxicity to Birds: Not expected to be toxic.

<u>Toxicity to Beneficial Microorganisms</u>: Concentrated solutions of alcohols and surfactants have antimicrobial activity.

### **ENVIROMNENTAL FATE**

**<u>Persistence and degradation</u>**: Moderately persistent but is biodegradable over time.

Bioaccumulation/Bioconcentration: Will not bioaccumulate

Soil Mobility: Similar to water.

# **Section 13: Disposal Considerations**

Please note: The advice in this section is given in accordance with the laws that were in effect at the time. Laws are transient and may change or be reinterpreted. State/Provincial or Local regulations are complex and may differ from Federal regulations. This information applies to the material as manufactured: processing, use or contamination may make the information inappropriate, inaccurate or incomplete. These regulations may also apply to empty containers, liners, and rinsate. Remember that the responsibility for proper waste disposal lies with the owner of the waste. See Section 15 Regulatory Information for additional regulations.

Classification Under Applicable Laws: RCRA: Not listed

**Identification:** Not listed

**Waste Disposal Method**: Incinerate in an approved incinerator, or landfill. Consult

**Local Regulations** 

<u>Disposal of Packaging</u>: No restrictions. <u>Safe Handling of Residues:</u> Not Required

<u>Can Packaging be Incinerated:</u> YES in an approved incinerator

Can Packaging be Recycled: YES triple rinsed containers may be recycled

Can Packaging be Landfilled: YES

# **Section 14: Transportation Information**

Special Shipping Instructions and Precautions- Within Premises:

Special Shipping Instructions and Precautions- Off Premises

DOT Classification/Description:

Not Regulated

Not Regulated

DOT Classification/Description:

TDG Classification /Description:

Not Regulated

Not Regulated

Classification/Description under International Transportation Regulations: Not Regulated

# **Section 15: Regulatory Information**

### SYMBOLS:



**TOXIC** 

FLAMMABLE Low FlashPoint (no symbol)

R-PHRASES:	R22	Harmful if Swallowed
	R36	Irritating to Eyes
S-PHRASES:	S2	Keep out of reach of children
	S13	Keep away from food, drink and animal feeding stuff
	S15	Keep away from heat
	S25	Avoid contact with eyes
	S26	In case of contact with eyes, rinse immediately with plenty of
		water and seek medical advise
	S46	If swallowed, seek medical advise immediately and show this
		container of label

### **US FEDERAL REGULATIONS**

OSHA: This product is classified as an Eye and Skin Irritant under OSHA

Standard classification system.

**TSCA** Ingredients of this product are on the US TSCA

(Toxic Substances Control Act) Export Notification: Isopropanol Export Notification Required

**FIFRA** Not applicable

(Federal Insecticide Fungicide,

and Rodenticide Act)

CERCLA: Not Listed

(Comprehensive Environmental Response

Compensation, And Liability Act)

**EPCRA:** (SARA Title III[Superfund Not Listed

Amendments and Reauthorization])

CAA (Clean Air Act): Not Listed

**CWA** (Clean Water Act): Not Listed

**FDA/USDA** (Food and Drug Act): Not applicable

**NFPA** (National Fire Portection

Association

NFPA Classification Fire=1 (Slightly Flammable),

Health=1 (Slightly Hazardous)

Reactivity=0 (Stable)

### CANADIAN REGULATIONS

WHMIS (Workplace Hazardous WHMIS Class B3 - Combustible Liquid

Materials Information System) WHMIS Class D2B - Toxic: Eye/Skin Irritant.

**CEPA** (Canadian Environmental

Protection Ace)/ DSL (Domestic

Substances List)

All 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 time exposure limit: 500 ppm STEL; 1225mg/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 Environmental-1991 Time weighted average/Peak Limitation: 400 ppm TWA; 983 mg/m<sup>3</sup> TWA

Short time 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.

Duetsche Forschungshemeinschaft (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

Embryotixicity/Fetotoxicity: classification net yet possible.

**ISREAL:** This information applies to Isopropanol only:

Occupational Exposure Limits for Chemical Substances 1990 Time Weighted average: 400 ppm TWA; 983 mg/m³ TWA Short time exposure limit: 500 ppm STEL; 1230 mg/m³ STEL

Action Level: 200 ppm AL; 491.5 mg/m<sup>3</sup> AL

**MEXICO:** This information applies to Isopropanol only:

Secretariat of Labour and Social Welfare Instruction No 10 Permissible

Concentrations-1992

Time Weighted average: 400 ppm TWA; 980 mg/m<sup>3</sup> TWA {new} Short time exposure limit: 500 ppm STEL; 1225 mg/m<sup>3</sup> STEL {new} Skin Designation: skin-potential for cutaneous absorption {new}

OTHER INTERNATIONAL

**REGULATIONS:** Not Available

### **Section 16: 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

**Training Requirements:** 

Workplace Hazardous Materials Information System training is required for handling and using this product in Canadian Workplaces. US 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.

**Additional Information** 

Keep out of reach of children.

**Disclaimer** 

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References

- 1. The References 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 Merk Index, An Encyclopedia of Chemicals
- 6. The CCINFO System, Canadian Centre of Occupational Health and Safety.
- 7. RTECS database by the US National Institute of Occupational Safety an Health
- 8. New Jersey Department of Health Hazardous Substances Fact Sheet.
- 9. Canadian Environmental Protection Ace, New Substances Notification Regulations-Domestic Substances List
- 10. Original Supplier MSDS.

Other Related	
Manufacturer's	<b>Brochures</b>

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 mature of the product.

### **Product Label**

