



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name ALL PURPOSE SPOTTER
CAS # Mixture
Product Use Water/solvent micro-emulsion cleaner
Manufacturer CFR Division of Tacony Corporation
3101 Wichita Court
Fort Worth, TX 76140-1710 US
Phone: 1-800-880-2913 ext.150

| LEGEND HMIS | |
|----------------|---|
| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |

| | |
|---------------------|-----|
| Health | * 2 |
| Flammability | 2 |
| Physical Hazard | 0 |
| Personal Protection | B |

2. Hazards Identification

Emergency Overview WARNING
EYE AND SKIN IRRITANT.
May cause sensitisation by skin contact. Combustible liquid.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes May cause irritation.

Skin Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals. May be absorbed through the skin.

ACGIH - Threshold Limit Values - Skin Notations

Dipropylene glycol methyl ether 34590-94-8 Skin - potential significant contribution to overall exposure by the cutaneous route

NIOSH - Pocket Guide - Skin Notations

Dipropylene glycol methyl ether 34590-94-8 Potential for dermal absorption

Inhalation May cause respiratory tract irritation.

Ingestion Harmful if swallowed. May cause stomach distress, nausea or vomiting.

Target organs Eyes. Skin.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, oedema, drying, defatting and cracking of the skin.
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition/Information on Ingredients

| Ingredient(s) | CAS # | Percent |
|--|------------|-----------|
| Dipropylene glycol methyl ether | 34590-94-8 | 0.5 - 1.5 |
| 2-Propanol, 1-butoxy- | 5131-66-8 | 0.5 - 1.5 |
| Methyloxirane, polymer with oxirane, monoethyl ether | 37311-02-7 | 1 - 5 |
| Methyloxirane, polymer with oxirane, monohexyl ether | 52232-09-4 | 1 - 5 |
| Methyloxirane, polymer with oxirane monodecyl ether | 37251-67-5 | 1 - 5 |
| d-Limonene | 5989-27-5 | 1 - 5 |
| Alcohols, C9-11, ethoxylated | 68439-46-3 | 1 - 5 |

4. First Aid Measures

First aid procedures

| | |
|---------------------|--|
| Eye contact | Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists. |
| Skin contact | Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists. |
| Inhalation | If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention. |
| Ingestion | Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention. |

Notes to physician

Symptoms may be delayed.

General advice

Keep away from sources of ignition. No smoking. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire-fighting Measures

Flammable properties

Combustible by WHMIS criteria.

Extinguishing media

Suitable extinguishing media Foam. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from the chemical Not available

Protective equipment for firefighters Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products

May include and are not limited to: Oxides of carbon. Oxides of sulphur.

Explosion data

Sensitivity to mechanical impact Not available

Sensitivity to static discharge Not available

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Methods for containment

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Remove sources of ignition. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

7. Handling and Storage

Handling

Use good industrial hygiene practices in handling this material.

Storage

Keep out of reach of children. Do not store at temperatures above 120°F (49°C). Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure limit values

| Ingredient(s) | Exposure limit values |
|--|--|
| 2-Propanol, 1-butoxy- | ACGIH-TLV Not established |
| Alcohols, C9-11, ethoxylated | ACGIH-TLV Not established |
| Dipropylene glycol methyl ether | ACGIH-TLV TWA: 100 ppm STEL: 150 ppm Skin: 100 ppm |
| d-Limonene | ACGIH-TLV Not established |
| Methyloxirane, polymer with oxirane monodecyl ether | ACGIH-TLV Not established |
| Methyloxirane, polymer with oxirane, monohexyl ether | ACGIH-TLV Not established |
| Methyloxirane, polymer with oxirane, monoethyl ether | ACGIH-TLV Not established |
| Methyloxirane, polymer with oxirane, monooctyl ether | ACGIH-TLV Not established |

Engineering controls

General ventilation normally adequate.

Personal protective equipment

Eye/Face protection

Wear safety glasses with side shields.

Hand protection

Rubber gloves. Confirm with a reputable supplier first.

Skin and body protection

As required by employer code.

Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

| | |
|--|---|
| Appearance | Liquid |
| Colour | Clear colourless |
| Form | Liquid |
| Odour | Slight citrus |
| Odour threshold | Not available |
| Physical state | Liquid |
| pH | 3.5 - 3.6 (100%) |
| Freezing point | Not available |
| Boiling point | 100 °C (212.00 °F) |
| Pour point | Not available |
| Flash point | 56 °C (132.80 °F) Pensky-Martens Closed Cup |
| Evaporation Rate | Not available |
| Flammability limits in air, lower, % by volume | 0.7 (d-Limonene) |
| Flammability Limits in Air, Upper, % by Volume | 6.1 (d-Limonene) |
| Vapour pressure | 19.1 @20°C |
| Vapour density | Not available |
| Specific gravity | 1 @ 21°C |
| Octanol/water coefficient | Not available |

| | |
|----------------------------------|---------------|
| Solubility (H2O) | Soluble |
| Auto-ignition temperature | Not available |
| VOC (Weight %) | Not available |
| Viscosity | Water thin |
| Percent volatile | Not available |

10. Stability and Reactivity

| | |
|---|--|
| Chemical stability | Stable under recommended storage conditions. |
| Conditions to avoid | Do not mix with other chemicals. |
| Incompatible materials | Oxidizers. |
| Hazardous decomposition products | May include and are not limited to: Oxides of carbon. Oxides of sulphur. |
| Possibility of hazardous reactions | Hazardous polymerisation does not occur. |

11. Toxicological Information

Component analysis - LC50

| Ingredient(s) | LC50 |
|--|---------------|
| 2-Propanol, 1-butoxy- | Not available |
| Alcohols, C9-11, ethoxylated | 5 mg/l/4h rat |
| Dipropylene glycol methyl ether | Not available |
| d-Limonene | Not available |
| Methyloxirane, polymer with oxirane monodecyl ether | Not available |
| Methyloxirane, polymer with oxirane, monohexyl ether | Not available |
| Methyloxirane, polymer with oxirane, monoethyl ether | Not available |

Component analysis - Oral LD50

| Ingredient(s) | LD50 |
|--|----------------------------------|
| 2-Propanol, 1-butoxy- | 3300 mg/kg rat |
| Alcohols, C9-11, ethoxylated | 1200 mg/kg rat |
| Dipropylene glycol methyl ether | 5400 mg/kg rat |
| d-Limonene | 4400 mg/kg rat; 5600 mg/kg mouse |
| Methyloxirane, polymer with oxirane monodecyl ether | Not available |
| Methyloxirane, polymer with oxirane, monohexyl ether | 3000 mg/kg rat |
| Methyloxirane, polymer with oxirane, monoethyl ether | Not available |

Effects of acute exposure

| | |
|-------------|---|
| Eye | May cause irritation. |
| Skin | Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals. May be absorbed through the skin. |

ACGIH - Threshold Limit Values - Skin Notations

Dipropylene glycol methyl ether 34590-94-8 Skin - potential significant contribution to overall exposure by the cutaneous route

NIOSH - Pocket Guide - Skin Notations

Dipropylene glycol methyl ether 34590-94-8 Potential for dermal absorption

Inhalation May cause respiratory tract irritation.

Ingestion Harmful if swallowed. May cause stomach distress, nausea or vomiting.

Sensitisation Contains a potential skin sensitizer.

Chronic effects May cause allergic reaction in sensitive individuals.

Carcinogenicity See below.

IARC - Group 3 (Not Classifiable)

d-Limonene 5989-27-5 Monograph 73 [1999] (overall evaluation downgraded from 2B to 3 with supporting evidence from other relevant data)

Mutagenicity Non-hazardous by WHMIS criteria.

Reproductive effects Non-hazardous by WHMIS criteria.

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Fish Species Data

| | | |
|---------------------------------|------------|--|
| Dipropylene glycol methyl ether | 34590-94-8 | 96 Hr LC50 Pimephales promelas: >10000 mg/L [static] |
| d-Limonene | 5989-27-5 | 96 Hr LC50 Pimephales promelas: 0.619-0.796 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 35 mg/L |

Ecotoxicity - Water Flea Data

| | | |
|---------------------------------|------------|-------------------------------------|
| Dipropylene glycol methyl ether | 34590-94-8 | 48 Hr LC50 Daphnia magna: 1919 mg/L |
|---------------------------------|------------|-------------------------------------|

| | |
|--|---------------|
| Environmental effects | Not available |
| Aquatic toxicity | Not available |
| Persistence and degradability | Not available |
| Bioaccumulation/accumulation | Not available |
| Partition coefficient | Not available |
| Mobility in environmental media | Not available |
| Chemical fate information | Not available |
| Other adverse effects | Not available |

13. Disposal Considerations

| | |
|--|--|
| Waste codes | Not available |
| Disposal instructions | Dispose in accordance with all applicable regulations. |
| Waste from residues / unused products | Not available |
| Contaminated packaging | Not available |

14. Transport Information

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

| | |
|--------------------------------|---------------------------------------|
| Proper shipping name | FLAMMABLE LIQUID, N.O.S. (d-Limonene) |
| Hazard class | 3 |
| UN number | UN1993 |
| Packing group | III |
| Additional information: | |
| Special provisions | 16 |
| Packaging exceptions | < 450L - Not regulated |



15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada - WHMIS - Ingredient Disclosure List

| | | |
|---------------------------------|------------|-----|
| Dipropylene glycol methyl ether | 34590-94-8 | 1 % |
| d-Limonene | 5989-27-5 | 1 % |

| | |
|-----------------------------|--|
| WHMIS classification | Class B - Division 3 - Combustible Liquid, Class D - Division 2B |
| WHMIS status | Controlled |

WHMIS labeling



Inventory Status

| Country(s) or region | Inventory Name | On Inventory (Yes/No)* |
|----------------------|-------------------------------------|------------------------|
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Prepared by

Dell Tech Laboratories Ltd. (519) 858-5021