



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

2. Hazards Identification

Emergency overview CAUTION
MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE SKIN IRRITATION. MAY CAUSE EYE IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION.

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 (sensitisation) in some individuals.

Inhalation May cause respiratory 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.

Potential environmental effects See section 12.

3. Composition/Information on Ingredients

Components	CAS #	Percent
Alcohols, C9-11, ethoxylated	68439-46-3	1 - 5
Diethylene glycol monobutyl ether	112-34-5	1 - 5
d-Limonene	5989-27-5	1 - 5
Methyloxirane, polymer with oxirane monodecyl ether	37251-67-5	1 - 5
Methyloxirane, polymer with oxirane, monohexyl ether	52232-09-4	1 - 5
Methyloxirane, polymer with oxirane, monoocetyl ether	37311-02-7	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 Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Keep away from sources of ignition. No smoking. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties	Not flammable 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 sulphur. Oxides of carbon.
Explosion data	
Sensitivity to mechanical impact	Not available.
Sensitivity to static discharge	Not available.

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.
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 to original containers for re-use.

7. Handling and Storage

Handling	Use only with adequate ventilation. Avoid contact with eyes. Avoid contact with skin and clothing. Avoid breathing vapours or mists of this product. When using do not eat or drink. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Keep container tightly closed.
Storage	Keep away from heat and flame. Store in a closed container away from incompatible materials. Keep out of reach of children. Do not store at temperatures above 120°F (49°C).

8. Exposure Controls/Personal Protection

Occupational exposure limits			
US. ACGIH Threshold Limit Values			
Components	Type	Value	Form
Diethylene glycol monobutyl ether (CAS 112-34-5)	TWA	10 ppm	Inhalable fraction and vapor.
Exposure limits	See above		
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

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

9. Physical and Chemical Properties

Appearance	Clear
Colour	Colourless
Form	Liquid
Odour	Solvent, Slight citrus
Odour threshold	Not available.
Physical state	Liquid.
pH	3.5 - 3.6 (100%)
Freezing point	Not available.
Boiling point	Not available.
Pour point	Not available.
Evaporation rate	Not available
Flash point	> 93.3 °C (> 200.0 °F) Pensky-Martens Closed Cup
Auto-ignition temperature	Not available
Flammability Limits in Air, Upper, % by Volume	Not available.
Flammability Limits in Air, Lower, % by Volume	Not available.
Heat of combustion	Not available.
Vapour pressure	Not available.
Vapour density	0.990 - 1.010
Specific gravity	@ 21°C
Partition coefficient (n-octanol/water)	Not available
Solubility (Water)	Soluble
Relative density	Not available.
Viscosity	Not available.
VOC	Not available
Percent volatile	Not available

10. Stability and Reactivity

Reactivity	This product may react with strong oxidising agents.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Avoid high temperatures. Do not mix with other chemicals.
Incompatible materials	Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of sulphur. Oxides of carbon.

11. Toxicological Information

Toxicological data

Components	Species	Test results
Alcohols, C9-11, ethoxylated (CAS 68439-46-3)		
Acute		
<i>Dermal</i>		
LD50	Rat	> 5000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 20 mg/L, 1 hours

Components	Species	Test results
<i>Oral</i> LD50	Rat	1200 mg/kg
Diethylene glycol monobutyl ether (CAS 112-34-5)		
Acute <i>Dermal</i> LD50	Rabbit	2700 mg/kg
<i>Inhalation</i> LC50	Not available	
<i>Oral</i> LD50	Guinea pig	2000 mg/kg
	Mouse	2400 mg/kg
	Rabbit	2200 mg/kg
	Rat	3384 mg/kg
d-Limonene (CAS 5989-27-5)		
Acute <i>Dermal</i> LD50	Rabbit	> 5000 mg/kg
<i>Inhalation</i> LC50	Not available	
<i>Oral</i> LD50	Mouse	5600 mg/kg
	Rat	4400 mg/kg
Methyloxirane, polymer with oxirane monodecyl ether (CAS 37251-67-5)		
Acute <i>Dermal</i> LD50	Not available	
<i>Inhalation</i> LC50	Not available	
<i>Oral</i> LD50	Not available	
Methyloxirane, polymer with oxirane, monoethyl ether (CAS 52232-09-4)		
Acute <i>Dermal</i> LD50	Rabbit	1500 mg/kg
<i>Inhalation</i> LC50	Not available	
<i>Oral</i> LD50	Rat	3000 mg/kg

Effects of acute exposure

Eye contact	May cause irritation.
Skin contact	Contact with skin can cause irritation and allergic reaction (sensitisation) in some individuals.
Inhalation	May cause respiratory 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. Non-hazardous by WHMIS criteria.

IARC Monographs. Overall Evaluation of Carcinogenicity

d-Limonene (CAS 5989-27-5)

Volume 73 - 3 Not classifiable as to carcinogenicity to humans.

Mutagenicity	Non-hazardous by WHMIS criteria.
Reproductive effects	Non-hazardous by WHMIS criteria.
Teratogenicity	Non-hazardous by WHMIS criteria.
Name of Toxicologically Synergistic Products	Not available.

12. Ecological Information**Ecotoxicity** See below**Ecotoxicological data****Components**

Alcohols, C9-11, ethoxylated (CAS 68439-46-3)

		Species	Test results
Fish		Rainbow trout	70.7 mg/L, 96 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	2.9 - 8.5 mg/L, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	6 - 12 mg/L, 96 hours
Diethylene glycol monobutyl ether (CAS 112-34-5)			
Crustacea	EC50	Daphnia	2850 mg/L, 48 Hours
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	1300 mg/L, 96 hours

d-Limonene (CAS 5989-27-5)

Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	69.6 mg/L, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	0.619 - 0.796 mg/L, 96 hours

Persistence and degradability Not available.**Bioaccumulation/accumulation** Not available**Mobility in environmental media** Not available.**Environmental effects** Not available.**Aquatic toxicity** Not available.**Partition coefficient**

Diethylene glycol monobutyl ether	0.56
d-Limonene	4.232

Chemical fate information Not available.**13. Disposal Considerations****Disposal instructions** Dispose in accordance with all applicable regulations.**Waste from residues / unused products** Not available**Contaminated packaging** Not available**14. Transport Information**

General Canada: TDG Proof of Classification: In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue. If applicable, the technical name and the classification of the product will appear below.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

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 NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

Diethylene glycol monobutyl ether (CAS 112-34-5) 1 TONNES
 d-Limonene (CAS 5989-27-5) 1 TONNES

Canada WHMIS Ingredient Disclosure: Threshold limits

Diethylene glycol monobutyl ether (CAS 112-34-5) 1 %
 d-Limonene (CAS 5989-27-5) 1 %

WHMIS status Controlled
WHMIS Classification Class D - Division 2B
WHMIS labeling

**Inventory status**

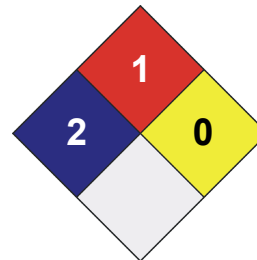
Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

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

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	* 2
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

**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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Other information For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.
 This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.