



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name SUPER SOLV
CAS # Mixture
Product Use Solvent based spotter/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, Skin absorption, 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
d-Limonene	5989-27-5	1 - 5
Dipropylene glycol methyl ether	34590-94-8	1 - 5
Alcohols, C9-11, ethoxylated	68439-46-3	1 - 5
2-Propanol, 1-butoxy-	5131-66-8	1 - 5
Methyloxirane, polymer with oxirane, monoethyl ether	37311-02-7	3 - 7
Methyloxirane, polymer with oxirane, monohexyl ether	52232-09-4	3 - 7
Methyloxirane, polymer with oxirane monodecyl ether	37251-67-5	3 - 7

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. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.

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

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	3.2 (100%)
Freezing point	Not available
Boiling point	100 °C (212.00 °F)
Pour point	Not available
Flash point	55 °C (131.00 °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	Not available
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

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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
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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