



Issue Date 12-Aug-2014

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Version 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier	
Product Name	GEL ZOV
Other means of identification	
Product Code	1210
Synonyms	None
Recommended use of the chemical Recommended Use	
Uses advised against	D-Limonene Gel Spotter. No information available
Details of the supplier of the safety	data sheet
Manufacturer Address	
Harvard Chemical Research, Inc., 359	95 Zip Industrial Blvd., Atlanta, GA
Emergency telephone number	
Company Phone Number	1-404-761-0657

Company Phone Number1-404-761-065724 Hour Emergency Phone Number800-424-9300Emergency TelephoneChemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

30354

## Label elements

**Emergency Overview** 

Appearance Clear

Physical state Gel

Odor Citrus Odor

# Hazards not otherwise classified (HNOC)

Other Information

Unknown Acute Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Dipropylene Glycol Monomethyl Ether	34590-94-8	<8	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

# **4. FIRST AID MEASURES**

First aid measures	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Rinse with clear water.
Inhalation	Remove to fresh air. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen, if available. Get medical attention.
Ingestion	Immediately drink large quantities of water. Get medical attention.
Most important symptoms and effe	cts, both acute and delayed
Symptoms	No information available.
Indication of any immediate medica	al attention and special treatment needed
Note to physicians	Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use water spray or fog, foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

#### Specific hazards arising from the chemical

Fumes produced under fire conditions are toxic and irritating. Heated drums may explode.

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal precautions

Ensure adequate ventilation, especially in confined areas.

#### Environmental precautions

**Environmental precautions** See Section 12 for additional ecological information.

### Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up		potential sources of ignition. For s t and place in drums for disposal. n solutions for disposal.	
	7. HANDLING /	AND STORAGE	
Precautions for safe handling			
Advice on safe handling	Handle in accordance with	n good industrial hygiene and safe	ety practice.
Conditions for safe storage, inc	cluding any incompatibilities		
Storage Conditions	Keep container closed who oxidizing materials. Keep	en not in use. Keep out of reach o away from flames.	of children. Keep away from
Incompatible materials	Strong acids. OXIDIZERS		
8.	<b>EXPOSURE CONTROLS</b>	/PERSONAL PROTECTIO	Ν
Control parameters			
Exposure Guidelines		does not contain any hazardous d by the region specific regulatory	
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Dipropylene Glycol Monomethyl Ether 34590-94-8	STEL: 150 ppm TWA: 100 ppm S*	TWA: 100 ppm TWA: 600 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 600 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 900 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 600 ppm TWA: 100 ppm TWA: 600 mg/m <sup>3</sup> STEL: 150 ppm STEL: 900 mg/m <sup>3</sup>
Appropriate engineering control	ols		
Engineering Controls	Local exhaust use explosi	on-proof ventilation as required to	o control vapor concentration.
Individual protection measures	s, such as personal protective	equipment	
Eye/face protection	Chemical goggles with sid	e shields.	

- **Skin and body protection** Wear Neoprene or protective rubber gloves. Do not wear tennis shoes or other porous or fabric footwear while applying this product, as the product will saturate them and may burn your skin. Wear water/solvent proof boots and keep your feet out of the product.
- **Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state Appearance Color	Gel Clear Clear	Odor Odor threshold	Citrus Odor No information available
Property	<u>Values</u>	Remarks • Method	

## рΗ

Melting point/freezing point Boiling point / boiling range Flash point **Evaporation rate** Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density **Specific Gravity** Water solubility Solubility in other solvents Partition coefficient Autoignition temperature **Decomposition temperature** Kinematic viscosity Dynamic viscosity **Explosive properties Oxidizing properties** 

## **Other Information**

Softening point Molecular weight VOC Content (%) Density Bulk density NA

No information available 100 212°F No information available <1 No information available No information available No information available No information available <1 .87 Emulsifiable No information available No information available

No information available No information available No information available 7.33 No information available

# **10. STABILITY AND REACTIVITY**

Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

#### Conditions to avoid

Extremes of temperature and direct sunlight.

### Incompatible materials

Strong acids. OXIDIZERS.

#### Hazardous Decomposition Products

Carbon dioxide (CO2). Carbon monoxide. Unidentified organic compounds may be formed during combustion.

## **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

**Product Information** 

No data available

Inhalation

Irritation and difficulty in breathing.

Eye contact Severely irritating to eyes.

Skin Contact No data available.

Ingestion Gastric pain and vomiting.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dipropylene Glycol Monomethyl Ether	= 5230 mg/kg (Rat)	= 9500 mg/kg (Rabbit)	-
34590-94-8			

## Information on toxicological effects

Symptoms

No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

#### Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity The following values are calculated based on chapter 3.1 of the GHS document .

# **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

8% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Dipropylene Glycol Monomethyl	-	10000: 96 h Pimephales promelas	1919: 48 h Daphnia magna mg/L
Ether		mg/L LC50 static	LC50
34590-94-8		_	

### Persistence and degradability

No information available.

#### **Bioaccumulation**

No information available.

Chemical Name	Partition coefficient
Dipropylene Glycol Monomethyl Ether	-0.064
34590-94-8	

Other adverse effects

No information available

# **13. DISPOSAL CONSIDERATIONS**

### Waste treatment methods

Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container.

# **14. TRANSPORT INFORMATION**

DOT

Not regulated

# **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances AICS - Australian Inventory of Chemical Substances

## US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %	
Dipropylene Glycol Monomethyl Ether - 34590-94-8	1.0	
SARA 311/312 Hazard Categories		
Acute health hazard	No	
Chronic Health Hazard	No	
Fire hazard	No	
Sudden release of pressure hazard	No	
Reactive Hazard	No	

## CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

# US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Dipropylene Glycol Monomethyl	X	X	Х
Ether			
34590-94-8			

### U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION							
NFPA	Health hazards 0	Flammability	0	Instability 0	Physical and Chemical Properties -		
HMIS	Health hazards 1	Flammability	1	Physical hazards 0	Personal protection X		
Issue Date Revision Date Revision Note	12-Aug-2014 12-Aug-2014						

No information available

**Disclaimer** 

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

#### End of Safety Data Sheet