

ISSUE DATE: September 2013

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VERSION: 1

## 1. IDENTIFICATION

### PRODUCT IDENTIFIER

PRODUCT NAME SOLVALL

### OTHER MEANS OF IDENTIFICATION

SDS Number E-003RP

Recommended Uses Tar and asphalt remover.  
Restrictions on Use

### SDS-SUPPLIER INFORMATION

SUPPLIER ADDRESS E-ZOIL Products, Inc.  
*DBA Emulso*  
2750 Kenmore Avenue  
Tonawanda, NY 14150

### EMERGENCY TELEPHONE NUMBER

COMPANY PHONE NUMBER (716) 854-2889  
COMPANY FAX NUMBER (716) 854-2809  
24-HOUR EMERGENCY TELEPHONE (ACCOUNT #8686)  
NORTH AMERICA 1-800-633-8253  
INTERNATIONAL PERS 1-801-629-0667

## 2. HAZARDS IDENTIFICATION

### CLASSIFICATION

Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 1
Flammable Liquids	Category 3

SIGNAL WORD: Danger

### HAZARD STATEMENTS



- HAZARD STATEMENTS**
1. Harmful in contact with skin
  2. Harmful if inhaled
  3. Causes skin irritation
  4. Causes serious eye irritation
  5. May cause genetic defects
  6. May cause cancer
  7. May cause respiratory irritation
  8. May be fatal if swallowed and enters airways
  9. Flammable liquid and vapor

**APPEARANCE:** Liquid

**PHYSICAL STATE:** Liquid

## PRECAUTIONARY STATEMENTS

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Wash face, hands and any exposed skin thoroughly after handling  
Wear eye/face protection  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Keep container tightly closed  
Ground/bond container and receiving equipment  
Use explosion-proof equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge  
Keep cool

## PREVENTION

**RESPONSE** If exposed or concerned: Get medical advice/attention

**IF SWALLOWED** Immediately call a POISON CENTER or doctor/physician  
Do NOT induce vomiting

**IF IN EYES** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

**IF ON SKIN/HAIR** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse.  
If skin irritation occurs: Get medical advice/attention

- IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF EXPOSED/CONCERNED** Get medical advice/ attention.
- STORAGE** Store locked-up. Keep away from children. Store in a well-ventilated place. Keep container tightly closed
- DISPOSAL** Dispose of contents/container to an approved waste disposal plant.
- HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)** N/A
- OTHER INFORMATION** In case of fire: Use CO2, dry chemical, or foam for extinction
- UNKNOWN ACUTE TOXICITY** Acute Toxicity classifications / calculations are approximates

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WEIGHT - %
Proprietary distillates	Proprietary	Proprietary
Proprietary hydrocarbon	Proprietary	Proprietary
Proprietary hydrocarbon	Proprietary	Proprietary
Proprietary glycol	Proprietary	Proprietary
Proprietary hydrocarbon	Proprietary	Proprietary
Proprietary hydrocarbon	Proprietary	Proprietary

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST-AID MEASURES

#### DESCRIPTION OF FIRST AID MEASURES

- GENERAL ADVICE** Provide this SDS to medical personnel for treatment.
- EYE CONTACT** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
- SKIN CONTACT** Wash off immediately with plenty of water. Take off contaminated clothing. Wash contaminated clothing before reuse. Call a poison center or doctor/physician if you feel unwell or if skin irritation persists.
- INHALATION** Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician/poison center if individual's condition declines or if symptoms persist.
- INGESTION** Do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Call a physician or poison control center immediately.

## POTENTIAL ACUTE HEALTH EFFECTS

*Most important symptoms and effects, both acute and delayed*

**SYMPTOMS** Causes skin and eye irritation. Harmful if inhaled. Harmful in contact with skin. May be harmful if swallowed. Exposed individuals may experience eye tearing, redness and discomfort. Aspiration hazard: if swallowed can enter lungs and cause damage. May cause respiratory irritation.

**NOTES TO PHYSICIAN** Aspiration into the lungs may occur during ingestion or vomiting, causing lung damage or even death due to chemical pneumonia.

## 5. FIRE-FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Alcohol resistant foam.

**UNSUITABLE EXTINGUISHING MEDIA** Water with a full water jet.

**SPECIFIC HAZARDS ARISING FROM CHEMICAL** Flammable liquid and vapor.

**HAZARDOUS COMBUSTION PRODUCTS** Carbon oxides.

**SENSITIVITY TO STATC DISCHARGE** Take precautionary measures against static discharge.

## PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

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** Use personal protective equipment as required.  
**ENVIRONMENTAL PRECAUTIONS** See Section 12 for additional Ecological Information.

### METHODS AND MATERIALS FOR CONTAMINATION AND CLEAN-UP

**CONTAMINATION** Prevent further leakage or spillage is safe to do so  
Use explosion proof equipment. Sweep up and shovel into suitable  
**CLEAN-UP** containers for disposal.  
For waste disposal, see section 13 of the SDS.

## 7. HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

**PROTECTIVE MEASURES**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8. Use only in well-ventilated areas. Wash face, hands and any exposed skin thoroughly after handling. Avoid breathing vapors or mists. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Use non-sparking hand tools and explosion-proof electrical equipment. All equipment used when handling the product must be grounded. Take precautionary measures against static discharges.

### CONDITIONS FOR SAFE STORAGE (INCLUDING ANY INCOMPATIBILITIES)

**STORAGE CONDITIONS** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

**INCOMPATIBLE MATERIALS** Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### EXPOSURE GUIDELINES

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Proprietary hydrocarbon	-	-	TWA: 25 ppm
Proprietary hydrocarbon	-	-	TWA: 125 mg/m <sup>3</sup> TWA: 25 ppm TWA: 125 mg/m <sup>3</sup>
Proprietary glycol	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>
Proprietary hydrocarbon	-	-	TWA: 25 ppm TWA: 125 mg/m <sup>3</sup>
Proprietary hydrocarbon	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m <sup>3</sup> (vacated) TWA: 50 ppm (vacated) TWA: 245 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 900 ppm TWA: 50 ppm TWA: 245 mg/m <sup>3</sup>
Proprietary Glycol	STEL: 50 ppm vapor fraction STEL: 10 mg/m <sup>3</sup> inhalable particulate matter, aerosol only TWA: 25 ppm vapor fraction	(vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m <sup>3</sup>	-

**ENGINEERING CONTROLS:** Apply technical measures to comply with the occupational exposure limits. Maintain eye wash fountain and quick-drench facilities in work area.

## INDIVIDUAL PROTECTION MEASURES

<b>EYE/FACE PROTECTION</b>	Refer to 29 CFR 1910.133 for eye and face protection regulations.
<b>SKIN/BODY PROTECTION</b>	Refer to 29 CFR 1910.138 for appropriate skin and body protection.
<b>RESPIRATORY PROTECTION</b>	A NIOSH/MSHA approved respirator as necessary. Refer to 29 CFR 1910.134 for respiratory protection requirements.
<b>GENERAL HYGIENE</b>	Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>PHYSICAL STATE</b>	Liquid
<b>APPERANCE</b>	Not determined
<b>COLOR</b>	Not determined
<b>ODOR</b>	Not determined
<b>ODOR THRESHOLD</b>	Not determined
<b>pH</b>	Not determined
<b>MELTING POINT/FREEZING POINT</b>	Not determined
<b>BOILING POINT/BOILING RANGE</b>	Not determined
<b>FLASH POINT</b>	43 °C / 109.4 °F
<b>EVAPORATION RATE</b>	Not determined
<b>FLAMMABILITY (SOLID, GAS)</b>	n/a-liquid
<b>UPPER FLAMMABILITY LIMITS</b>	Not determined
<b>LOWER FLAMMABILITY LIMITS</b>	Not determined
<b>VAPOR PRESSURE</b>	Not determined
<b>SPECIFIC GRAVITY</b>	Not determined
<b>RELATIVE DENSITY</b>	Not determined
<b>WATER SOLUBILITY</b>	Insoluble in water
<b>PARTITION COEFFICIENT</b>	Not determined
<b>N-OCTANOL/ WATER</b>	Not determined
<b>AUTO-IGNITION TEMPERATURE</b>	Not determined
<b>DECOMPOSITION TEMPERATURE</b>	Not determined
<b>VISCOSITY</b>	Not determined

## 10. STABILITY AND REACTIVITY

<b>REACTIVITY</b>	Not reactive under normal conditions
<b>CHEMICAL STABILITY</b>	Stable under recommended storage conditions
<b>POSSIBILITY OF HAZARDOUS REACTIONS</b>	None under normal processing
<b>CONDITIONS TO AVOID</b>	Keep out of reach of children. Heat, flames and sparks.
<b>INCOMPATIBLE MATERIALS</b>	Strong oxidizing agents.
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

*Information on likely routes of exposure.*

<b>EYE CONTACT</b>	Causes serious eye irritation.
<b>SKIN CONTACT</b>	Causes skin irritation. Harmful in contact with skin.
<b>INHALATION</b>	Harmful if inhaled.
<b>INGESTION</b>	May be harmful if swallowed. May be fatal if swallowed and enters airways.

### COMPONENT INFORMATION

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Proprietary distillates	= 8400 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	= 3400 ppm ( Rat ) 4 h
Proprietary hydrocarbon	= 3280 mg/kg ( Rat )	> 3160 mg/kg ( Rabbit )	= 18 g/m3 ( Rat ) 4 h
Proprietary hydrocarbon	= 5000 mg/kg ( Rat )	-	= 24 g/m3 ( Rat ) 4 h
Proprietary glycol	= 470 mg/kg ( Rat )	= 99 mg/kg ( Rabbit )	= 486 ppm ( Rat ) 4 h = 450 ppm ( Rat ) 4 h
Proprietary hydrocarbon	= 1400 mg/kg ( Rat )	= 12300 µL/kg ( Rabbit )	= 39000 mg/m3 ( Rat ) 4 h > 3577 ppm ( Rat ) 6 h
Proprietary Glycol	= 4700 mg/kg ( Rat )	= 10600 mg/kg ( Rat ) = 9530 µL/kg ( Rabbit )	= 3400 ppm ( Rat ) 4 h

**SYMPTOMS** Please see section 4 of this SDS for symptoms.

### INFORMATION AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE

**GERM CELL MUTAGENICITY** May cause genetic defects.

**CARCINOGENICITY** May cause cancer.

Chemical Name	ACGIH	IARC	NTP	OSHA
Proprietary glycol	A3	Group 3		
Proprietary hydrocarbon		Group 2B	Reasonably Anticipated	X

### LEGEND

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists)
<b>A3</b>	Animal Carcinogen
<b>IARC</b>	(International Agency for Research on Cancer)
<b>Group 2B</b>	Possibly Carcinogenic to Humans
<b>Group 3</b>	IARC components are "not classifiable as human carcinogens"
<b>NTP</b>	(National Toxicology Program)
<b>Reasonably Anticipated</b>	Reasonably Anticipated to be a Human Carcinogen (Occupational Safety and Health Administration of the US Department of Labor)
<b>OSHA</b>	(Occupational Safety and Health Administration of the US Department of Labor)
<b>X</b>	Present

**STOT – SINGLE EXPOSURE** May cause respiratory irritation.

**ASPIRATION HAZARD** May be fatal if swallowed and enters airways.

### NUMERICAL MEASURES OF TOXICITY-PRODUCT

The following values are calculated based on chapter 3.1 of the GHS document .

**UNKNOWN ACUTE TOXICITY** Acute Toxicity classifications / calculations are approximates.

## 12. ECOLOGICAL INFORMATION

**ECOTOXICITY** Harmful to aquatic life with long lasting effects.

CHEMICAL NAME	ALGAE/ AQUATIC PLANTS	FISH	CRUSTACEA
Proprietary distillates	-	9.22: 96 h Oncorhynchus mykiss mg/L LC50	6.14: 48 h Daphnia magna mg/L EC50
Proprietary hydrocarbon	-	7.19 - 8.28: 96 h Pimephales promelas mg/L LC50 flow-through	6.14: 48 h Daphnia magna mg/L EC50
Proprietary hydrocarbon	-	3.48: 96 h Pimephales promelas mg/L LC50	50: 24 h Daphnia magna mg/L EC50
Proprietary glycol	-	1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50	1698 - 1940: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50



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Proprietary hydrocarbon

2.6: 72 h  
Pseudokirchneriella  
subcapitata mg/L  
EC50

5.1: 96 h Poecilia reticulata  
mg/L  
LC50 semi-static 4.8: 96 h  
Oncorhynchus mykiss mg/L  
LC50 flow-through 2.7: 96 h  
Oncorhynchus mykiss mg/L  
LC50 semi-static 6.04 - 6.61:  
96 h Pimephales promelas  
mg/L LC50  
flow-through

0.6: 48 h Daphnia magna  
mg/L  
EC50 7.9 - 14.1: 48 h  
Daphnia magna mg/L EC50  
Static

Proprietary Glycol

6500 - 13000: 96 h  
Pseudokirchneriella  
subcapitata mg/L  
EC50

27540: 96 h Lepomis  
macrochirus  
mg/L LC50 static 40000 -  
60000: 96 h Pimephales  
promelas mg/L LC50 static  
41000: 96 h Oncorhynchus  
mykiss mg/L LC50 40761: 96  
h Oncorhynchus mykiss mg/L  
LC50 static 14 - 18: 96 h  
Oncorhynchus  
mykiss mL/L LC50 static  
16000: 96  
h Poecilia reticulata mg/L  
LC50 static

46300: 48 h Daphnia magna  
mg/L EC50

**PERSISTENCE AND DEGRADABILITY** Not determined

**BIOACCUMULATION** Not determined

**MOBILITY**

Chemical Name	Partition Coefficient
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Proprietary hydrocarbon	3.63
Proprietary glycol	0.81
Proprietary hydrocarbon	3.7
Proprietary Glycol	-1.93

**OTHER ADVERSE EFFECTS** Not determined

## 13. DISPOSAL CONSIDERATIONS

### WASTE TREATMENT METHODS

<b>WASTE DISPOSAL</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>CONTAMINATED PACKAGING</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.

### US EPA WASTE NUMBER

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Proprietary hydrocarbon				U055

## CALIFORNIA HAZARDOUS WASTE STATUS

Chemical Name	California Hazardous Waste Status
Proprietary hydrocarbon	Toxic Ignitable

## 14. TRANSPORT INFORMATION

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

### DOT

Not regulated In non-bulk packages, this product is not regulated for ground transportation in accordance with 49 CFR 173.150(f).

### IATA

<b>UN/ID No</b>	UN1993
<b>Proper Shipping Name</b>	Flammable liquid, n.o.s. (Petroleum distillates, Ethylene glycol monobutyl ether)
<b>Hazard Class</b>	3
<b>Packing Group</b>	III

### IMDG

<b>UN/ID No</b>	UN1993
<b>Proper Shipping Name</b>	Flammable liquid, n.o.s. (Petroleum distillates, Ethylene glycol monobutyl ether)
<b>Hazard Class</b>	3
<b>Packing Group</b>	III

## 15. REGULATORY INFORMATION

### INTERNATIONAL INVENTORIES

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Proprietary distillates	X	X	X		X	Present	X	X	Proprietary distillates	X
Proprietary hydrocarbon	X	X	X	Present	X	Present	X	X	Proprietary hydrocarbon	X
Proprietary hydrocarbon	X	X	X	Present	X	Present	X	X	Proprietary hydrocarbon	X
Proprietary glycol	X	X	X	Present	X	Present	X	X	Proprietary glycol	X
Proprietary hydrocarbon	X	X	X	Present	X	Present	X	X	Proprietary hydrocarbon	X
Proprietary hydrocarbon	X	X	X	Present	X	Present	X	X	Proprietary hydrocarbon	X
Proprietary Glycol	X	X	X	Present	X	Present	X	X	Proprietary Glycol	X

### LEGEND

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

## U.S. FEDERAL REGULATIONS

### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Proprietary hydrocarbon	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Proprietary Glycol	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ



# Safety Data Sheet

## SARA 311/312 HAZARD CATEGORIES

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

## SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Proprietary hydrocarbon -		Proprietary	1.0
Proprietary glycol -		Proprietary	1.0
Proprietary hydrocarbon -		Proprietary	1.0
Proprietary Glycol -		Proprietary	1.0

## CLEAN WATER ACT (CWA)

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)

## U.S. STATE REGULATIONS

**CALIFORNIA PROPOSITION 65** This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Proprietary hydrocarbon	Carcinogen
Proprietary Glycol	Developmental

## U.S. STATE RIGHT-TO-KNOW REGULATIONS

CHEMICAL NAME	NEW JERSEY	MASSACHUSETTS	PENNSYLVANIA
Proprietary hydrocarbon	X	X	X
Proprietary hydrocarbon		X	
Proprietary glycol	X	X	X
Proprietary hydrocarbon	X	X	X
Proprietary Glycol	X	X	X

## 16. OTHER INFORMATION

<b>NFPA</b>	<b>HEALTH HAZARDS</b>	<b>FLAMMABILITY</b>	<b>INSTABILITY</b>	<b>SPECIAL HAZARDS</b>
	Not determined	Not determined	Not determined	Not determined
<b>HMIS</b>	<b>HEALTH HAZARDS</b>	<b>FLAMMABILITY</b>	<b>PHYSICAL HAZARDS</b>	<b>PERSONAL PROTECTION</b>
	Not determined	Not determined	Not determined	Not determined

## DISCLAIMER

The information provided in this Safety Data Sheet is correct to the best of our knowledge 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**