

ISSUE DATE: September 2013

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VERSION: 1

1. IDENTIFICATION

PRODUCT IDENTIFIER

PRODUCT NAME SOLVALL

OTHER MEANS OF IDENTIFICATION

SDS Number

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 800-535-5053
INTERNATIONAL 352-323-3500

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

- PREVENTION**
- 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

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



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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 CO ₂ , 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 - %
Naphthalene	64742-95-6	80%-90%
Ethylene Glycol	111-76-2	10%-20%
Proprietary	Proprietary	<5

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.



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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 ENVIRONMENTAL PRECAUTIONS

Use personal protective equipment as required.
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

CLEAN-UP

Use explosion proof equipment. Sweep up and shovel into suitable 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
Ethylene Glycol	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m3 (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m3 (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m3
Naphthalene	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m3 (vacated) TWA: 50 ppm (vacated) TWA: 245 mg/m3 (vacated) S* S*	IDLH: 900 ppm TWA: 50 ppm TWA: 245 mg/m3

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

EYE/FACE PROTECTION Refer to 29 CFR 1910.133 for eye and face protection regulations.
SKIN/BODY PROTECTION Refer to 29 CFR 1910.138 for appropriate skin and body protection.
RESPIRATORY PROTECTION A NIOSH/MSHA approved respirator as necessary. Refer to 29 CFR 1910.134 for respiratory protection requirements.
GENERAL HYGIENE 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

PHYSICAL STATE	Liquid
APPERANCE	Not determined
COLOR	Not determined
ODOR	Not determined
ODOR THRESHOLD	Not determined
pH	Not determined
MELTING POINT/FREEZING POINT	Not determined
BOILING POINT/BOILING RANGE	Not determined
FLASH POINT	43 °C / 109.4 °F
EVAPORATION RATE	Not determined

FLAMMABILITY (SOLID, GAS)	n/a-liquid
UPPER FLAMMABILITY LIMITS	Not determined
LOWER FLAMMABILITY LIMITS	Not determined
VAPOR PRESSURE	Not determined
SPECIFIC GRAVITY	Not determined
RELATIVE DENSITY	Not determined
WATER SOLUBILITY	Insoluble in water
PARTITION COEFFICIENT	Not determined
N-OCTANOL/ WATER	Not determined
AUTO-IGNITION TEMPERATURE	Not determined
DECOMPOSITION TEMPERATURE	Not determined
VISCOSITY	Not determined

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure.

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

COMPONENT INFORMATION

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Naphthalene	= 5000 mg/kg (Rat)	-	= 24 g/m3 (Rat) 4 h
Ethylene Glycol	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 486 ppm (Rat) 4 h = 450 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
Ethylene Glycol	A3	Group 3		
Naphthalene		Group 2B	Reasonably Anticipated	X

LEGEND

ACGIH	American Conference of Governmental Industrial Hygienists)
A3	Animal Carcinogen
IARC	(International Agency for Research on Cancer)
Group 2B	Possibly Carcinogenic to Humans
Group 3	IARC components are "not classifiable as human carcinogens"
NTP	(National Toxicology Program)
Reasonably Anticipated	Reasonably Anticipated to be a Human Carcinogen (Occupational Safety and Health Administration of the US Department of Labor)
OSHA	(Occupational Safety and Health Administration of the US Department of Labor)
X	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
Naphthalene	-	7.19 - 8.28: 96 h Pimephales promelas mg/L LC50 flow-through	6.14: 48 h Daphnia magna mg/L EC50
Ethylene 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

PERSISTENCE AND DEGRADABILITY Not determined
BIOACCUMULATION Not determined

MOBILITY

Chemical Name	Partition Coefficient
Ethylene Glycol	0.81
Naphthalene	3.7

OTHER ADVERSE EFFECTS Not determined

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

WASTE DISPOSAL	Disposal should be in accordance with applicable regional, national and local laws and regulations.
CONTAMINATED PACKAGING	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
Naphthalene				U055

CALIFORNIA HAZARDOUS WASTE STATUS

Chemical Name	California Hazardous Waste Status
Naphthalene	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

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

IMDG

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



15. REGULATORY INFORMATION

INTERNATIONAL INVENTORIES

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Naphthalene	X	X	X		X	Present	X	X	Naphthalene	X
Ethylene Glycol	X	X	X	Present	X	Present	X	X	Ethylene Glycol	X

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/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

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)
Naphthalene	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Ethylene Glycol	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

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 %
Naphthalene	64742-95-6	80%-90%	1.0
Ethylene Glycol	111-76-2	10%-20%	1.0



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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)

TSCA

All substances listed as active on the TSCA inventory

U.S. STATE REGULATIONS

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

Chemical Name	California Proposition 65
Naphthalene	Carcinogen
Ethylene Glycol	Developmental

U.S. STATE RIGHT-TO-KNOW REGULATIONS

CHEMICAL NAME	NEW JERSEY	MASSACHUSETTS	PENNSYLVANIA
Naphthalene	X	X	X
Naphthalene		X	
Ethylene Glycol	X	X	X
Naphthalene	X	X	X
Ethylene Glycol	X	X	X

16. OTHER INFORMATION

NFPA	HEALTH HAZARDS	FLAMMABILITY	INSTABILITY	SPECIAL HAZARDS
	Not determined	Not determined	Not determined	Not determined

HMIS	HEALTH HAZARDS	FLAMMABILITY	PHYSICAL HAZARDS	PERSONAL PROTECTION
	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