



**Safety Data Sheet  
A-100**

Version 2.0  
Date 06/01/2020

**Section 1: Identification**

**1.1. Product identifier**

Product form : Mixture  
Product Identifier(s) : **A-100**  
Other means of identification : Atosol 100  
Solvent naphtha, light aromatic  
Light aromatic solvent naphtha  
Aromatic 100  
Solvent naphtha (petroleum) light aromatic  
Light aromatic solvent naphtha (petroleum) (C8-10)  
CAS No : 64742-95-6

**1.2. Recommended use of the chemical and restrictions on use**

Use of the substance/mixture : Solvent  
Fuel

**1.3. Details of the supplier of the safety data sheet**

Solvents & Petroleum Service, Inc.  
1405 Brewerton Rd. Syracuse, NY 13208

Phone: 800-315-4467 Fax: 315-454-8230

**1.4. Emergency telephone number**

Emergency number : CHEMTREC: 1-800-424-9300

**Section 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification (GHS-US)**

Flammable liquids Category 3  
Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 2A  
Carcinogenicity Category 2  
Specific target organ toxicity (single exposure) Category 3 - Narcotic effects  
Specific target organ toxicity (single exposure) Category 3 - Respiratory irritation  
Specific target organ toxicity (single exposure) Category 1  
Specific target organ toxicity (repeated exposure) Category 1  
Aspiration hazard Category 1

**2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)**



Signal word (GHS-US) : **Danger**  
Hazard statements (GHS-US) : **Flammable liquid and vapor**  
**May be fatal if swallowed and enters airways**  
**Causes skin irritation**  
**Causes serious eye irritation**  
**May cause respiratory irritation**  
**May cause drowsiness or dizziness**  
**Suspected of causing cancer**  
**Causes damage to organs (lung)**

**Causes damage to organs (nervous system) through prolonged or repeated exposure**

Precautionary statements (GHS-US) : Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Keep away from heat, hot surfaces, open flames, sparks. - No smoking.  
 Keep container tightly closed.  
 Ground/bond container and receiving equipment.  
 Use explosion-proof electrical, lighting, ventilating equipment.  
 Use only non-sparking tools.  
 Take precautionary measures against static discharge.  
 Do not breathe vapors, spray, mist.  
 Wash hands, forearms and face thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Use only outdoors or in a well-ventilated area.  
 Wear impermeable protective gloves, eye protection, flame retardant protective clothing.  
 If swallowed: Immediately call doctor, poison center.  
 Do NOT induce vomiting.  
 If on skin: Wash with plenty of water.  
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 If skin irritation occurs: Get medical advice/attention.  
 If inhaled: Remove person to fresh air and keep comfortable for breathing.  
 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.  
 Specific treatment (see Section 4.1 of SDS or information on this label).  
 If exposed or concerned: Get medical advice/attention.  
 Get medical advice/attention if you feel unwell.  
 Take off contaminated clothing and wash before reuse.  
 In case of fire: Use Water spray, foam, carbon dioxide (CO<sub>2</sub>), dry chemical to extinguish.  
 Store in a well-ventilated place. Keep cool.  
 Store locked up.  
 Dispose of contents and container in accordance with all local, regional, national and international regulations.

**2.3. Hazards not otherwise classified**

Other hazards not contributing to the classification : Product can accumulate electrostatic charges that may cause fire by electrical discharges.

**2.4. Unknown acute toxicity(GHS-US)**

Not applicable

**2.5. Additional information**

No additional information available

**Section 3: Composition/information on ingredients**

**3.1. Substance**

Not applicable

**3.2. Mixture**

Name	CAS No	%
1,2,4-trimethylbenzene	95-63-6	10 - 35
Other Aromatic hydrocarbons ( C9- C10 )	-	<= 25
m-Ethyltoluene	620-14-4	10 - 20
1,3,5-Trimethylbenzene	108-67-8	5 - 10
p-Ethyltoluene	622-96-8	3 - 9
Benzene, 1-ethyl-2-methyl-	611-14-3	3 - 9
Xylene	1330-20-7	2 - 8
n-Propylbenzene	103-65-1	3 - 7
1,2,3-Trimethylbenzene	526-73-8	3 - 7
Cumene	98-82-8	1 - 2
Ethylbenzene	100-41-4	<= 0.5

**Section 4: First aid measures**

**4.1. Description of first aid measures**

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Suspected of causing cancer.

First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see ... on this label).
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries	: Causes damage to organs.
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### Section 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

#### 5.2. Special hazards arising from the chemical

Fire hazard	: Flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air mixture.

#### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

### Section 6: Accidental release measures

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

Emergency procedures for non-emergency personnel	: Evacuate unnecessary personnel.
Emergency procedures for emergency responders	: Ventilate area.

#### 6.2. Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
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#### 6.3. Reference to other sections

See section 8. Exposure controls/personal protection.

### Section 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No bare lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Hygiene measures	: Wash ... thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/... equipment.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container tightly closed.

Incompatible products : Strong bases. Strong acids.  
 Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

## Section 8: Exposure controls/personal protection

### 8.1. Occupational Exposure Limits

<b>Cumene (98-82-8)</b>		
USA ACGIH	ACGIH TWA (ppm)	50 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	245 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>		
USA ACGIH	ACGIH TWA (ppm)	100 ppm
USA ACGIH	ACGIH STEL (ppm)	150 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm
<b>Ethylbenzene (100-41-4)</b>		
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm

### 8.2. Exposure controls

Appropriate engineering controls : Ensure adequate ventilation.  
 Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Impermeable protective gloves. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection : Chemical goggles or safety glasses.  
 Skin and body protection : Wear fire/flamm resistant/retardant clothing.  
 Respiratory protection : An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits.  
 Other information : Do not eat, drink or smoke during use.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
 Color : Colorless. Clear.  
 Odor : Sweet. Aromatic.  
 Odor threshold : No data available  
 pH : Not applicable  
 Relative evaporation rate (butyl acetate=1) : No data available  
 Melting point : < -60 °C  
 Freezing point : No data available  
 Boiling point : 148 - 177 °C  
 Flash point : 41 °C (106 F) (closed cup)  
 Auto-ignition temperature : 280 - 470 °C  
 Decomposition temperature : No data available  
 Flammability (solid, gas) : No data available  
 Vapor pressure : < 10 mm Hg @ 20°C  
 Relative vapor density at 20 °C : 3.5 (Air = 1)  
 Relative density : 0.86 - 0.88 (Water = 1)  
 Solubility : Water: Negligible.  
 Log Kow : No data available  
 Viscosity, kinematic : < 2 cSt @ 40°C  
 Viscosity, dynamic : No data available

Explosive limits : 1.4 - 7.6 vol %

## 9.2. Other information

VOC content : 100%

## Section 10: Stability and reactivity

### 10.1. Reactivity

Flammable liquid and vapor.

### 10.2. Chemical stability

Flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

### 10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Strong reducing agents.

### 10.6. Hazardous decomposition products

Hazardous decomposition products formed under fire conditions: carbon monoxide, carbon dioxide, toxic fumes.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure : Eye contact. Skin contact. Ingestion. Inhalation.

Acute toxicity : Not classified

<b>A- 100 (64742-95-6)</b>	
LD50 oral rat	8400 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (ppm)	3400 ppm/4h
ATE US (oral)	8400.000 mg/kg body weight
ATE US (gases)	3400.000 ppmV/4h
<b>1,2,4-trimethylbenzene (95-63-6)</b>	
LD50 oral rat	5000 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
LC50 inhalation rat	18 mg/l/4h
<b>m-Ethyltoluene (620-14-4)</b>	
LD50 oral rat	4300 mg/kg Based on xylenes
LD50 dermal rabbit	>= 4200 mg/kg Based on xylenes
LC50 inhalation rat	21.7 mg/l/4h Based on xylenes
<b>1,3,5-Trimethylbenzene (108-67-8)</b>	
LD50 oral rat	5000 mg/m <sup>3</sup> Based on 1,2,4-trimethylbenzene
LD50 dermal rabbit	> 3160 mg/kg Based on 1,2,4-trimethylbenzene
LC50 inhalation rat	24 mg/l/4h (Exposure time: 4 h)
<b>p-Ethyltoluene (622-96-8)</b>	
LD50 oral rat	4300 mg/kg Based on xylenes
LD50 dermal rabbit	>= 4200 mg/kg Based on xylenes
LC50 inhalation rat	21.7 mg/l/4h Based on xylenes
<b>Benzene, 1-ethyl-2-methyl- (611-14-3)</b>	
LD50 oral rat	5000 mg/kg
LD50 dermal rat	10600 mg/kg Based on cumene
LC50 inhalation rat	39 mg/l/4h Based on cumene
<b>1,2,3-Trimethylbenzene (526-73-8)</b>	
LD50 oral rat	5000 mg/kg Based on 1,2,4-trimethylbenzene
LD50 dermal rabbit	> 3160 mg/kg Based on 1,2,4-trimethylbenzene
LC50 inhalation rat	10.2 mg/l/4h Based on a mixture of trimethylbenzenes.
<b>Cumene (98-82-8)</b>	
LD50 oral rat	1400 mg/kg
LD50 dermal rat	10600 mg/kg
LC50 inhalation rat	39 mg/l/4h
<b>n-Propylbenzene (103-65-1)</b>	
LD50 oral rat	6040 (6040 - 7500) mg/kg
LD50 dermal rat	10600 mg/kg Based on Isopropyl benzene
LC50 inhalation rat	422 g/m <sup>3</sup> (Exposure time: 2 h)

<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
LD50 oral rat	4300 mg/kg
LD50 dermal rabbit	> 4200 mg/kg
LC50 inhalation rat	21.7 mg/l/4h
<b>Ethylbenzene (100-41-4)</b>	
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	15354 mg/kg
LC50 inhalation rat	17.2 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.

<b>Cumene (98-82-8)</b>	
IARC group	2B - Possibly carcinogenic to humans
<b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>	
IARC group	3 - Not classifiable
<b>Ethylbenzene (100-41-4)</b>	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness. May cause respiratory irritation. Causes damage to organs (lung).
Specific target organ toxicity (repeated exposure)	: Causes damage to organs (nervous system) through prolonged or repeated exposure.
Aspiration hazard	: May be fatal if swallowed and enters airways.
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. Harmful if inhaled.

## Section 12: Ecological information

### 12.1. Toxicity

<b>A- 100 (64742-95-6)</b>	
LC50 fish 1	9.22 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	6.14 mg/l (Exposure time: 48 h - Species: Daphnia magna)

### 12.2. Persistence and degradability

<b>A- 100 (64742-95-6)</b>	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

<b>A- 100 (64742-95-6)</b>	
Bioaccumulative potential	Not established.

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents and container in accordance with all local, regional, national and international regulations.
Additional information	: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.

## Section 14: Transport information

### US Transport (DOT) for Bulk Shipments (Non-Bulk Shipments May Differ)

Transport document description	: UN1268, Petroleum distillates, n.o.s., 3, PGIII
UN or NA Number	: UN1268
Proper Shipping Name	: Petroleum distillates, n.o.s.

Primary Hazard Class : 3 - Flammable liquid  
 Packing Group : PGIII  
 Hazard labels :



Emergency Response Guide (ERG) Number : 128

In accordance with the definition in 49 CFR § 171.8, a hazardous substance does not include petroleum, including crude oil or any fraction thereof which is not other specifically listed or designated as such in Appendix A to 49 CFR § 172.101. Therefore, this product does not require a RQ designation.

**Transport by sea (IMDG)**

Transport document description : UN1268, PETROLEUM DISTILLATES, N.O.S., 3, PG III  
 UN Number : UN1268  
 Proper Shipping Name : PETROLEUM DISTILLATES, N.O.S.  
 Primary Hazard Class : 3 - Flammable liquids  
 Packing Group : PGIII  
 Hazard labels (IMDG) :



Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Product name: Alkyl (C3 - C4) benzenes (A-100)  
 Pollution category: Y  
 Ship type: 2  
 Cargo name listed in 46 CFR 30.25, Table 30.25-1 : Alkyl (C3 - C4) benzenes  
 Cargo name listed in 46 CFR 153, Table 1 : Alkyl (C3 - C4) benzenes

**Air transport (IATA)**

Transport document description : UN1268, PETROLEUM DISTILLATES, N.O.S., 3, PGIII  
 UN Number : UN1268  
 Proper Shipping Name : PETROLEUM DISTILLATES, N.O.S.  
 Primary Hazard Class : 3 - Flammable Liquids  
 Packing Group : PGIII  
 Hazard labels (IATA) :



**Section 15: Regulatory information**

**15.1. US Federal regulations**

**A- 100**

This product is a substance under TSCA (CAS No. 64742-95-6; Solvent naphtha (petroleum), light arom.).  
 SARA 313

This product contains chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372

**SARA 313 Components:**

1,2,4-trimethylbenzene	CAS No.: 95-63-6	Conc: 10 - 35%
Cumene	CAS No.: 98-82-8	Conc: 1 - 2%
Xylenes (o-, m-, p- isomers)	CAS No.: 1330-20-7	Conc: 2 - 8%
Ethylbenzene	CAS No.: 100-41-4	Conc: <= 0.5%

SARA Section 311/312 Hazard Classes  
 Fire hazard  
 Chronic health hazard  
 Acute health hazard

## 15.2. International regulations

### CANADA

#### A 100 (64742-95-6)

WHMIS Classification

Class B Division 3 - Combustible Liquid

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

### National inventories

#### Solvent naphtha (petroleum), light arom. (64742-95-6)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

Listed on the China Inventory of Existing Chemical Substances (IECSC)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS)

## 15.3. US State regulations

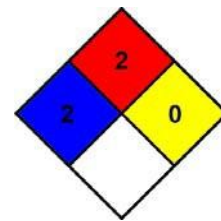
California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity, not limited to any that may be listed below.

<b>Cumene (98-82-8)</b>	
U.S. - California - Proposition 65 - Carcinogens List	Yes
U.S. - California - Proposition 65 - Developmental Toxicity	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No
<b>Ethylbenzene (100-41-4)</b>	
U.S. - California - Proposition 65 - Carcinogens List	Yes
U.S. - California - Proposition 65 - Developmental Toxicity	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No
No significance risk level (NSRL)	54 µg/day (inhalation)

## Section 16: Other information

### NFPA (National Fire Protection Association)

NFPA health hazard : 2  
NFPA fire hazard : 2  
NFPA reactivity : 0



### HMIS III Rating

Health : 2\*  
Flammability : 2  
Physical Hazard : 0  
Personal Protection : See section 8 of SDS



# A-100



## Danger

**Flammable liquid and vapor**

**May be fatal if swallowed and enters airways**

**Causes skin irritation**

**Causes serious eye irritation**

**May cause respiratory irritation**

**May cause drowsiness or dizziness**

**Suspected of causing cancer**

**Causes damage to organs (lung)**

**Causes damage to organs (nervous system) through prolonged or repeated exposure**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat, hot surfaces, open flames, sparks. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical, lighting, ventilating equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe vapors, spray, mist.

Wash hands, forearms and face thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear impermeable protective gloves, eye protection, flame retardant protective clothing.

If swallowed: Immediately call doctor, poison center.

Do NOT induce vomiting.

If on skin: Wash with plenty of water.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation occurs: Get medical advice/attention.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

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.

Specific treatment (see Section 4.1 of SDS or information on this label).

If exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash before reuse.

In case of fire: Use Water spray, foam, carbon dioxide (CO<sub>2</sub>), dry chemical to extinguish.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents and container in accordance with all local, regional, national and international regulations.

### **Supplemental Information: Other hazards not contributing to the classification**

Product can accumulate electrostatic charges that may cause fire by electrical discharges.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Solvents and Petroleum Service, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.