



# Material Safety Data Sheet

Revision Date 03-Feb-2014

## 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product code** 56160  
**Product name** Unisolv Multi-Purpose Solvent  
**Recommended Use** Solvent  
**Supplier** Lawson Products, Inc.  
8770 W.Bryn Mawr Ave.- Suite 900  
Chicago, IL 60631  
1-866-529-7664  
**Emergency telephone number** (888) 426-4851

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Extremely flammable. Contents under pressure. Irritant.

### Aggravated Medical Conditions

None Known.

### Principal Routes of Exposure

Inhalation. Eyes. Skin contact.

### Potential health effects

**Eyes** May cause the following effects: Irritation. Redness. Itching. Burning sensation.

**Skin** Repeated or prolonged exposure may cause: Skin Irritation. Redness. Itching. Burning sensation.

**Inhalation** Upper respiratory tract irritation. Repeated or prolonged exposure may cause the following effects: Headaches. Dizziness. Nausea. Central nervous system depression. Loss of coordination. Extreme overexposure may cause. Reproductive system damage. Possible unconsciousness. Death. Misuse by deliberately concentrating vapors and inhaling contents can be harmful or fatal.

**Ingestion** May be harmful if swallowed.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Light Aliphatic Naptha Solvent	64742-89-8	40-70
Xylenes (o-, m-, p- isomers)	1330-20-7	10-30
Propane	74-98-6	10-30

Butane	106-97-8	7-13
Ethyl benzene	100-41-4	1-5

## 4. FIRST AID MEASURES

**Eye contact** Flush with plenty of water for at least 15 minutes. Seek medical attention.

**Skin contact** Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use.

**Ingestion** Do Not induce vomiting. Immediate medical attention is required.

**Inhalation** Remove from exposure. Restore breathing. Keep warm and quiet. Contact physician if breathing difficulty develops.

## 5. FIRE FIGHTING MEASURES

**Flash point °C** < -17  
**Flash point °F** < 0  
**Method** Tag Closed Cup

**Autoignition temperature °C** No data available  
**Autoignition temperature °F** No data available

### Flammability Limits (% in Air)

**Upper** 9.5  
**Lower** 0.9

**Flame extension** 43" w/o extension tube; 46" w/ extension tube  
**Flashback** None w/o extension tube; Yes with extension tube

### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>). Dry chemical powder. Foam.

### Special protective equipment for firefighters

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

**Fire and Explosion Hazards**

Keep product and empty container away from heat and sources of ignition. Containers may vent or burst under extreme or prolonged fire conditions. In the event of fire and/or explosion do not breathe fumes. Contact with open flame or hot surfaces may generate toxic fumes. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**Sensitivity to shock**

No information available.

**Sensitivity to static discharge**

Yes. Take precautionary measures against static discharges.

**6. ACCIDENTAL RELEASE MEASURES****Methods for cleaning up**

Eliminate all sources of ignition. Ventilate area to maintain exposure below permissible exposure limits. Soak up with inert absorbent material.

**7. HANDLING AND STORAGE****Handling**

Ensure adequate ventilation. Turn off other sources of ignition prior to use and until all vapors have dissipated. Vapors may accumulate readily and may ignite explosively. Remove all sources of ignition. Keep away from open flame. Avoid contact with skin and eyes. Do not smoke. Check to make sure that all equipment is properly grounded and installed to satisfy electrical classification requirements. Contents under pressure. Do not puncture or incinerate. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of reach of children.

**Storage**

Store in temperatures below 120 degrees F (50 degrees C). Keep away from direct sunlight. Keep out of the reach of children.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Propane	1000 ppm 1800 mg/m <sup>3</sup>	-	1000 ppm	-
Butane	800 ppm	-	-	1000 ppm
Ethyl benzene	100 ppm 435 mg/m <sup>3</sup>	-	20 ppm	-
Xylenes (o-, m-, p-isomers)	100 ppm 435 mg/m <sup>3</sup>	-	100 ppm	150 ppm
Light Aliphatic Naptha Solvent	-	-	-	-

**Ventilation and Environmental Controls**

Use enough ventilation, local exhaust at the work area, general, or both, to keep below the TLV's in the worker's breathing zone and the general area. Local: recommended.

**Hygiene measures**

Wash hands before breaks and immediately after handling the product.

**Respiratory protection**

To avoid excessive inhalation of mists, a respirator is recommended. If the exposure limits are exceeded, a NIOSH/MSHA approved respirator is recommended.

**Hand Protection**

Gloves are not required in normal use. The following glove(s) are recommended to prevent prolonged or repeated contact: Chemical resistant gloves.

**Eye protection**

Wear safety glasses with side shields.

**Skin and body protection**

None necessary under normal conditions

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Form</b>	Aerosol
<b>Color</b>	Colorless
<b>Odor</b>	Solvent
<b>Odor Threshold</b>	No information available
<b>pH</b>	Not Applicable
<b>Specific Gravity</b>	0.69
<b>Vapor pressure</b>	No data available
<b>Density</b>	5.77 lb/gal; 691 g/l
<b>Vapor density</b>	>1 (air=1)
<b>Evaporation Rate</b>	>1 (ether = 1)
<b>Water solubility</b>	No data available
<b>VOC Content</b>	100%
<b>Partition Coefficient (n-octanol/water)</b>	No data available
<b>Boiling point/range °C</b>	< -18 - 162
<b>Boiling point/range °F</b>	< 0 - 325
<b>Melting point/range °C</b>	No data available
<b>Melting point/range °F</b>	No data available
<b>Flash point °C</b>	< -17
<b>Flash point °F</b>	< 0

**10. STABILITY AND REACTIVITY****Stability**

Stable.

**Conditions to avoid**

None known.

**Incompatibility**

None.

**Hazardous Decomposition Products**

Carbon dioxide. Carbon monoxide.

**Polymerization**

Will not occur.

**11. TOXICOLOGICAL INFORMATION****Component Information**

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
Propane 74-98-6	-	-	658 mg/L
Butane 106-97-8	-	-	658 g/m <sup>3</sup>
Ethyl benzene 100-41-4	3500 mg/kg	15354 mg/kg	17.2 mg/L
Xylenes (o-, m-, p- isomers) 1330-20-7	4300 mg/kg	-	47635 mg/L
Light Aliphatic Naptha Solvent 64742-89-8	-	3000 mg/kg	-

**Synergistic Products** None known**Potential health effects**

<b>Sensitization</b>	None known
<b>Chronic toxicity</b>	Repeated and prolonged exposure to solvents may cause brain and nervous system damage.
<b>Mutagenic effects</b>	None known
<b>Teratogenic effects</b>	None known
<b>Reproductive toxicity</b>	May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility.
<b>Target Organ Effects</b>	Long term exposure to vapor may cause liver damage. Brain. Nervous system. Urinary system.
<b>Carcinogenic effects</b>	See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Propane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Butane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Ethyl benzene	A3	Group 2B	Not Listed	Not Listed	Listed
Xylenes (o-, m-, p- isomers)	A4	Not Listed	Not Listed	Not Listed	Not Listed
Light Aliphatic Naptha Solvent	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

**12. ECOLOGICAL INFORMATION****Xylenes (o-, m-, p- isomers)****Microtox Data***Photobacterium phosphoreum* EC50=0.0084 mg/L (24 h)**Water Flea Data***Gammarus lacustris* LC50=0.6 mg/L (48 h)

water flea EC50=3.82 mg/L (48 h)

**Ethyl benzene****Microtox Data***Photobacterium phosphoreum* EC50=9.68 mg/L (30 min)*Nitrosomonas* EC50=96 mg/L (24 h)**Water Flea Data***Daphnia magna* EC501.8 - 2.4 mg/L (48 h)**Aquatic toxicity** Do not let product enter drains. Harmful to aquatic organisms**13. DISPOSAL CONSIDERATIONS****Disposal Information**

As supplied, this product is a RCRA Hazardous Waste. Waste must be tested for ignitability to determine EPA hazardous waste numbers. Do not puncture or incinerate. Depressurize before disposal. Dispose in accordance with federal, state, and local regulations.

**14. TRANSPORTATION INFORMATION****DOT**

Consumer commodity, ORM-D.

**TDG**

Consumer commodity, ORM-D.

**15. REGULATORY INFORMATION**

Chemical Name	US EPA SARA 313 Emission Reporting
Ethyl benzene	Listed
Xylenes (o-, m-, p- isomers)	Listed

**State Regulations**

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Propane	Listed	Listed	Not Listed
Butane	Listed	Listed	Not Listed
Ethyl benzene	Listed	Listed	Carcinogen
Xylenes (o-, m-, p- isomers)	Listed	Listed	Not Listed
Light Aliphatic Naptha Solvent	Not Listed	Not Listed	Not Listed

**WARNING:** This product contains a chemical(s) known to the state of California to cause cancer and birth defects or other reproductive harm

Product code **56160**

Product name **Unisolv Multi-Purpose Solvent**

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**International Inventories**

Chemical Name	EINECS	DSL	NDSL	TSCA
Propane	X	X	-	X
Butane	X	X	-	X
Ethyl benzene	X	X	-	X
Xylenes (o-, m-, p- isomers)	X	X	-	X
Light Aliphatic Naptha Solvent	X	X	-	X

**CPR**

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

**16. OTHER INFORMATION**

**HMIS**

**Health - 2 \***  
**Flammability - 4**  
**Physical Hazard - 0**

**Prepared By**

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Engineer

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.