

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture  
Product name : Lipa-Solve 77

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

No additional information available

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

TRUBOND TANNING PRODUCTS, LLC  
328 SHORECREST DR.  
SENECA, SC, USA, 29672  
PH: 989-600-0869

### 1.4. Emergency telephone number

Emergency number (Chemtrec account 4657) : 1-800-424-9300 (+) 1-703-527-3887 (international)

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

#### Classification (GHS-US)

Flam. Liq. 4	H227 - Combustible liquid
Acute Tox. 3 (Oral)	H301 - Toxic if swallowed
Acute Tox. 3 (Inhalation: vapor)	H331 - Toxic if inhaled
Eye Dam. 1	H318 - Causes serious eye damage
STOT RE 1	H372 - Causes damage to organs through prolonged or repeated exposure
Asp. Tox. 1	H304 - May be fatal if swallowed and enters airways
Aquatic Acute 2	H401 - Toxic to aquatic life

Full text of H-phrases: see section 16

### 2.2. Label elements

#### GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H227 - Combustible liquid  
H301+H331 - Toxic if swallowed or if inhaled  
H304 - May be fatal if swallowed and enters airways  
H318 - Causes serious eye damage  
H372 - Causes damage to organs through prolonged or repeated exposure  
H401 - Toxic to aquatic life

Precautionary statements (GHS-US) :

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P264 - Wash ... thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P301+P310 - If swallowed: Immediately call a poison center/doctor/...  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a poison center/doctor/...  
P311 - Call a poison center/doctor/...  
P314 - Get medical advice/attention if you feel unwell  
P321 - Specific treatment (see ... on this label)  
P330 - Rinse mouth  
P331 - Do NOT induce vomiting

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P370+P378 - In case of fire: Use ... to extinguish  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed  
P403+P235 - Store in a well-ventilated place. Keep cool  
P405 - Store locked up  
P501 - Dispose of contents/container to ...

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Alcohols, C-8 - C-10, ethoxylated, propoxylated	(CAS No) 68603-25-8	35 - 40	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 2, H401
distillates, hydrotreated light	(CAS No) 64742-47-8	15 - 35	Asp. Tox. 1, H304
solvent naphtha(petroleum), medium aliph.	(CAS No) 64742-88-7	15 - 35	STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Acute 2, H401

Full text of H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : If you feel unwell, seek medical advice. Remove the victim into fresh air.  
First-aid measures after skin contact : Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Take victim to a doctor if irritation persists.  
First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water for 15 minutes. Take victim to an ophthalmologist if irritation persists.  
First-aid measures after ingestion : Consult a doctor/medical service if you feel unwell.

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

Symptoms/injuries after inhalation : Causes irritation to mucous membranes, nose and respiratory passages. Irritation of the respiratory tract. May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Symptoms/injuries after skin contact : Dry skin. May cause irritation.  
Symptoms/injuries after eye contact : May cause moderate irritation.  
Symptoms/injuries after ingestion : Gastrointestinal complaints.

### 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 : Alcohol-resistant foam. Carbon dioxide. Dry powder. Water spray.  
Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : When heated to extreme, product may release flammable vapors.  
Reactivity : On heating: release of combustible gases/vapours.

### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Eliminate all ignition sources if safe to do so.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.  
Other information : Oxides of Carbon and Toxic fumes will be generated.

## SECTION 6: Accidental release measures

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

General measures : Cool exposed containers with water.

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### 6.1.1. For non-emergency personnel

Protective equipment : Gloves. Protective clothing. Safety glasses.

### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.  
Emergency procedures : Stop leak if safe to do so. Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

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

For containment : Dam up the liquid spill.  
Methods for cleaning up : Liquid spill: take up in sand, earth, vermiculite or kieselguhr, powdered limestone.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Do not eat, drink or smoke when using this product. Do not handle until all safety precautions have been read and understood.

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

Storage conditions : Keep container closed when not in use. Keep cool.  
Incompatible products : Oxidizing agent.  
Incompatible materials : Direct sunlight. Heat sources. Sources of ignition.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Alcohols, C-8 - C-10, ethoxylated, propoxylated (68603-25-8)		
ACGIH	ACGIH TWA (ppm)	1 ppm Ethylene Oxide - 2 ppm Propylene Oxide
OSHA	OSHA PEL (TWA) (ppm)	1 ppm Ethylene Oxide
OSHA	OSHA PEL (STEL) (ppm)	5 ppm Ethylene Oxide

### 8.2. Exposure controls

Personal protective equipment : Gloves. Protective clothing. Safety glasses.



Hand protection : Gloves.  
Eye protection : Safety glasses.  
Skin and body protection : Protective clothing.  
Respiratory protection : Respiratory protection not required in normal conditions. In case of inadequate ventilation wear respiratory protection.

## SECTION 9: Physical and chemical properties

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

Physical state : Liquid  
Appearance : Clear, colorless liquid.  
Color : Mixture contains one or more component(s) which have the following color(s):  
No data available on color Light yellow  
Odor : Solvent like  
Odor threshold : No data available  
pH : No data available  
pH solution :  $\approx 10 (\geq 5.3) \%$

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Melting point	: No data available
Freezing point	: No data available
Boiling point	: ≈ 200 °C
Flash point	: ≈ 61.1 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: ≈ 0.89
Relative vapor density at 20 °C	: No data available
Solubility	: Soluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: ≈ 1.8 mm <sup>2</sup> /s
Viscosity, dynamic	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

On heating: release of combustible gases/vapours.

### 10.2. Chemical stability

No additional information available

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Direct sunlight. Heat. Open flame. Sparks.

### 10.5. Incompatible materials

Oxidizing agent.

### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Toxic if swallowed. Inhalation:vapour: Toxic if inhaled.

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ATE US (oral)	180.000 mg/kg body weight
ATE US (vapors)	3.600 mg/l/4h
solvent naphtha(petroleum), medium aliph. (64742-88-7)	
LD50 oral rat	> 5000 mg/kg body weight (Rat; Equivalent or similar to OECD 420; Experimental value)
LD50 dermal rabbit	> 2000 mg/kg body weight (Rabbit; Experimental value; Equivalent or similar to OECD 402)
Alcohols, C-8 - C-10, ethoxylated, propoxylated (68603-25-8)	
LD50 oral rat	72 mg/kg Ethylene Oxide / LD 50 Propylene Oxide= 380 mg/kg
LC50 inhalation rat (mg/l)	1.44 mg/l/4h Ethylene Oxide / LC 50 Propylene Oxide = 4,000 mg/l, 4h
ATE US (oral)	72.000 mg/kg body weight
ATE US (vapors)	1.440 mg/l/4h
ATE US (dust, mist)	1.440 mg/l/4h

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

### Alcohols, C-8 - C-10, ethoxylated, propoxylated (68603-25-8)

IARC group	4 - Probably not carcinogenic to humans
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: May be fatal if swallowed and enters airways.
Symptoms/injuries after inhalation	: Causes irritation to mucous membranes, nose and respiratory passages. Irritation of the respiratory tract. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/injuries after skin contact	: Dry skin. May cause irritation.
Symptoms/injuries after eye contact	: May cause moderate irritation.
Symptoms/injuries after ingestion	: Gastrointestinal complaints.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### solvent naphtha(petroleum), medium aliph. (64742-88-7)

LC50 fish 1	2 - 5 mg/l (LL50; OECD 203: Fish, Acute Toxicity Test; 96 h; Oncorhynchus mykiss; Semi-static system; Fresh water; Experimental value)
EC50 Daphnia 1	1.4 mg/l (EL50; OECD 202: Daphnia sp. Acute Immobilization Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 1	1 - 3,EL50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value

#### Alcohols, C-8 - C-10, ethoxylated, propoxylated (68603-25-8)

LC50 fish 1	73 - 96 mg/l 96 hours, Ethylene Oxide
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### 12.2. Persistence and degradability

#### solvent naphtha(petroleum), medium aliph. (64742-88-7)

Persistence and degradability	Readily biodegradable in water. Adsorbs into the soil.
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#### Alcohols, C-8 - C-10, ethoxylated, propoxylated (68603-25-8)

Persistence and degradability	Not established.
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### 12.3. Bioaccumulative potential

#### solvent naphtha(petroleum), medium aliph. (64742-88-7)

Bioaccumulative potential	No bioaccumulation data available.
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#### Alcohols, C-8 - C-10, ethoxylated, propoxylated (68603-25-8)

Bioaccumulative potential	No bioaccumulation data available.
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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not discharge into the sewer.

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### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Transport document description	: 1993 Combustible Liquid n.o.s.
UN-No.(DOT)	: 1993
Proper Shipping Name (DOT)	: Combustible Liquid n.o.s.
DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada
Other information	: Regulated for bulk shipments only

#### TDG

No additional information available

#### Transport by sea

Not regulated

#### Air transport

Not regulated

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

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SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
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##### Alcohols, C-8 - C-10, ethoxylated, propoxylated (68603-25-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

RQ (Reportable quantity, section 304 of EPA's List of Lists)	10 lb Ethylene Oxide / 100 lb for Propylene Oxide
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	0.001 % for Ethylene Oxide and Propylene Oxide

#### 15.2. International regulations

##### CANADA

No additional information available

##### EU-Regulations

No additional information available

##### National regulations

No additional information available

#### 15.3. US State regulations

##### Alcohols, C-8 - C-10, ethoxylated, propoxylated (68603-25-8)

U.S. - California - Proposition 65 - Other information	Ethylene and Propylene Oxide are listed in CA
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### SECTION 16: Other information

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### Full text of H-phrases:

Acute Tox. 3 (Inhalation: vapor)	Acute toxicity (inhalation: vapor) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Liq. 4	Flammable liquids Category 4
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
H227	Combustible liquid
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H318	Causes serious eye damage
H331	Toxic if inhaled
H372	Causes damage to organs through prolonged or repeated exposure
H401	Toxic to aquatic life

### HMIS III Rating

Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.
Personal Protection	: C C - Safety glasses, Gloves, Synthetic apron

### SDS US (GHS HazCom 2012)

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