

**SECTION 1: Identification**

**1.1. Identification**

Product form : Mixture  
Product name : Tarpedo®

**1.2. Recommended use and restrictions on use**

No additional information available

**1.3. Supplier**

BioChem Systems, Inc.  
480 Wildwood Forest Drive  
Suite 400  
Spring, TX 77380  
1 (800) 777-7870

**1.4. Emergency telephone number**

Emergency number : PERS - (800) 633-8253

**SECTION 2: Hazard(s) identification**

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

**GHS-US classification**

Flam. Liq. 3 H226  
Carc. 2 H351  
Asp. Tox. 1 H304  
Aquatic Acute 2 H401  
Aquatic Chronic 2 H411

**2.2. GHS Label elements, including precautionary statements**

**GHS US labelling**

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H226 - Flammable liquid and vapour.  
H304 - May be fatal if swallowed and enters airways.  
H351 - Suspected of causing cancer.  
H401 - Toxic to aquatic life  
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (GHS US) :

P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/Bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ventilating/lighting equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, face protection, protective clothing, protective gloves.  
P301+P310 - IF SWALLOWED: Immediately call a doctor, a poison center  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P331 - Do NOT induce vomiting.  
P370+P378 - In case of fire: Use media other than water to extinguish.  
P391 - Collect spillage.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

**2.3. Other hazards which do not result in classification**

No additional information available

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

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%*
Solvent naphtha, petroleum, heavy aromatic	(CAS-No.) 64742-94-5	80 – 100
Naphthalene	(CAS-No.) 91-20-3	5 – 10
1-Butoxy-2-propanol	(CAS-No.) 5131-66-8	1 – 5
Benzene, 1,2,4-trimethyl-	(CAS-No.) 95-63-6	1 – 5
Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	(CAS-No.) 127087-87-0	1 – 5
2-Butoxy-1-propanol	(CAS-No.) 15821-83-7	0.1 – 1

\*In accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200), the specific chemical identity or exact weight % has been withheld as a trade secret.

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
- First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If breathing is difficult, supply oxygen. If breathing has stopped, give artificial respiration.
- First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.
- First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing if pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing.
- First-aid measures after ingestion : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention immediately.

#### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects : May be fatal if swallowed and enters airways. Suspected of causing cancer.
- Symptoms/effects after inhalation : May be fatal if swallowed and enters airways.
- Symptoms/effects after skin contact : May cause skin irritation.
- Symptoms/effects after eye contact : May cause eye irritation.
- Symptoms/effects after ingestion : May cause gastrointestinal irritation.
- Chronic symptoms : Suspected of causing cancer.

#### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Foam. Carbon dioxide. Dry chemical. Water fog.
- Unsuitable extinguishing media : None known.

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

- Fire hazard : Product is flammable.
- Explosion hazard : Heating may generate vapors.
- Reactivity : No dangerous reactions known under normal conditions of use.

#### 5.3. Special protective equipment and precautions for fire-fighters

- Precautionary measures fire : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment. Prevent human exposure to fire, fumes, smoke and products of combustion.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus.

### SECTION 6: Accidental release measures

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

- General measures : Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection. Use special care to avoid static electric charges. Avoid breathing fumes or vapours. No flames, no sparks. Eliminate all sources of ignition. Vapor may cause flash fires. Vapors are heavier than air and can travel long distances to ignition sources.

##### 6.1.1. For non-emergency personnel

- Protective equipment : Wear Protective equipment as described in Section 8.
- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

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

- For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Use only non-sparking tools.
- Methods for cleaning up : Eliminate ignition sources. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. This material and its container must be disposed of in a safe way, and as per local legislation. Notify authorities if product enters sewers or public waters.

### 6.4. Reference to other sections

See Sections 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing vapours, mist. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

- Technical measures : Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue and can be hazardous.
- Storage conditions : Store in a well-ventilated place. Keep cool. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>1-Butoxy-2-propanol (5131-66-8)</b>		
ACGIH	Remark (ACGIH)	OELs not established
OSHA	Remark (OSHA)	OELs not established
<b>Naphthalene (91-20-3)</b>		
ACGIH	ACGIH OEL TWA [ppm]	10 ppm
ACGIH	ACGIH OEL STEL [ppm]	15 ppm
ACGIH	Regulatory reference	ACGIH 2023
OSHA	OSHA PEL TWA [1]	50 mg/m <sup>3</sup>
OSHA	OSHA PEL TWA [2]	10 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
IDLH	IDLH [ppm]	250 ppm
NIOSH	NIOSH REL TWA	50 mg/m <sup>3</sup>
NIOSH	NIOSH REL TWA [ppm]	10 ppm
NIOSH	NIOSH REL STEL	75 mg/m <sup>3</sup>
NIOSH	NIOSH REL STEL [ppm]	15 ppm
<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>		
ACGIH	ACGIH OEL TWA [ppm]	10 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: CNS impair; hematologic eff. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH	Regulatory reference	ACGIH 2023
OSHA	Remark (OSHA)	OELs not established
NIOSH	NIOSH REL TWA	125 mg/m <sup>3</sup>
NIOSH	NIOSH REL TWA [ppm]	25 ppm
<b>Solvent naphtha, petroleum, heavy aromatic (64742-94-5)</b>		
ACGIH	Remark (ACGIH)	OELs not established
OSHA	Remark (OSHA)	OELs not established
<b>Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched (127087-87-0)</b>		
ACGIH	Remark (ACGIH)	OELs not established
OSHA	Remark (OSHA)	OELs not established
<b>2-Butoxy-1-propanol (15821-83-7)</b>		
ACGIH	Remark (ACGIH)	OELs not established
OSHA	Remark (OSHA)	OELs not established

### 8.2. Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment symbol(s):

#### Personal protective equipment:

Gloves. Protective goggles. Protective clothing.  
Insufficient ventilation: wear respiratory protection.



#### Hand protection:

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.

#### Eye protection:

Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles.

#### Skin and body protection:

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

#### Respiratory protection:

Where vapour, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Clear & Bright.
Colour	: Colourless to slightly yellow
Odour	: Mothballs Naphthalene-like
Odour threshold	: No data available
pH	: Not Applicable
Melting point	: No data available
Freezing point	: < 0 °C (32 °F)
Boiling point	: 182.22 °C (360°F)
Flash point	: ≥ 62.78 °C (145°F)
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Density	: 0.9 g/m <sup>3</sup> (20°C)
Solubility	: Insoluble in the water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition. Elevated temperature. Prevent vapour accumulation.

### 10.5. Incompatible materials

Strong oxidizing agents, reducing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>1-Butoxy-2-propanol (5131-66-8)</b>	
LD50 oral rat	5660 µl/kg
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)
LD50 dermal rabbit	3100 mg/kg

<b>Naphthalene (91-20-3)</b>	
LD50 oral rat	1110 mg/kg
LD50 dermal rabbit	1120 mg/kg (Source: NZ_CCID)
LC50 Inhalation - Rat	> 340 mg/m³ 1 h

<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>	
LD50 oral rat	3280 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
LC50 Inhalation - Rat	18 g/m³ (Exposure time: 4 h Source: NLM_CIP)

<b>Polyethylene glycol (25322-68-3)</b>	
LD50 oral rat	22 g/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
LD50 dermal rabbit	> 20 g/kg

<b>Solvent naphtha, petroleum, heavy aromatic (64742-94-5)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2 ml/kg
LC50 Inhalation - Rat	> 590 mg/m³ 4h

<b>Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched (127087-87-0)</b>	
LD50 oral rat	1310 mg/kg (Source: NZ_CCID)

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

<b>Naphthalene (91-20-3)</b>	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.
Viscosity, kinematic	: No data available
Symptoms/effects	: May be fatal if swallowed and enters airways. Suspected of causing cancer.
Symptoms/effects after inhalation	: May be fatal if swallowed and enters airways.
Symptoms/effects after skin contact	: May cause skin irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: May cause gastrointestinal irritation.
Chronic symptoms	: Suspected of causing cancer.

### SECTION 12: Ecological information



<b>12.1. Toxicity</b>	
Ecology - general	: Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
<b>12.2. Persistence and degradability</b>	
No information available	
<b>12.3. Bioaccumulative potential</b>	
No information available	
<b>12.4. Mobility in soil</b>	
No information available	
<b>12.5. Other adverse effects</b>	
Other adverse effects	: No data available.

### SECTION 13: Disposal considerations


<b>13.1. Disposal methods</b>	
Waste treatment methods	: Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without a permit.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment. Container under pressure. Do not drill or burn even after use.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

Transport document description (DOT)	: UN1993 Flammable liquids, n.o.s., 3, III	 
UN-No. (DOT)	: UN1993	
Proper Shipping Name (DOT)	: Flammable liquids, n.o.s.	
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120	
Packing group (DOT)	: III - Minor Danger	
Hazard labels (DOT)	: 3 - Flammable liquid	
Dangerous for the environment	: Yes	
Marine pollutant	: Yes	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.	
Emergency Response Guide (ERG) Number	: 128	
Other information	: Non-Bulk Domestic Ground: This material is not regulated for domestic ground shipments by the U.S. Department of Transportation (DOT) when transported in non-bulk (a packaging which has a maximum capacity of 119 gallons or less as a receptacle for a liquid). Reference 49 CFR 173.120(b) (2) and 173.150 (f) (1). In summary, for non-bulk domestic ground shipments: DOT Class: Not Regulated Hazard Class: Not Applicable UN No.: Not Applicable	

#### Transport by sea (IMDG)

Transport document description (IMDG)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III	
UN-No. (IMDG)	: 3082	
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	
Class (IMDG)	: 9 - Miscellaneous dangerous substances and articles	
Packing group (IMDG)	: III - substances presenting low danger	
Limited quantities (IMDG)	: 5 L	
Marine pollutant	: Yes	

#### Air transport (IATA)

Transport document description (IATA)	: UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III
UN-No. (IATA)	: 3082
Proper Shipping Name (IATA)	: Environmentally hazardous substance, liquid, n.o.s.
Class (IATA)	: 9 - Miscellaneous Dangerous Substances and Articles
Packing group (IATA)	: III - Low danger

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

<b>Tarpedo®</b>	
All chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule") of Feb. 2019, as amended Feb. 2021, or are otherwise exempt or regulated by other agencies such as FDA or FIFRA	
SARA Section 311/312 Hazard Classes	Physical hazard - Flammable (gases, aerosols, liquids, or solids) Health hazard - Aspiration hazard Health hazard - Carcinogenicity

#### 15.2. International regulations

No information available

#### 15.3. US State regulations

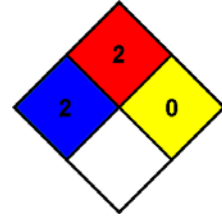
**⚠ WARNING:** This product can expose you to Naphthalene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Naphthalene (91-20-3)	X				5.8 µg/day	

Component	State or local regulations
Naphthalene (91-20-3)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List
Benzene, 1,2,4-trimethyl- (95-63-6)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

### SECTION 16: Other information

Other information	: Revised by: Regulatory & Compliance Date of Revision: 10/18/2023
NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
HMIS Hazard Rating	
Health	: 2
Flammability	: 2
Physical	: 0



*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*