SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

- Product form: Substance
- Substance name: Toluene
- CAS No: 108-88-3
- Product code: LC26170
- Formula: C7H8
- Synonyms: benzyl hydride / methylbenzene / phenylmethane / toluolol / toluol oil / toluole
- BIG no: 10046

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

- Use of the substance/mixture: Solvent

1.3. Details of the supplier of the safety data sheet

- LabChem Inc
- Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court
- Zelienople, PA 16063 - USA
- T 412-826-5230 - F 724-473-0647
- info@labchem.com - www.labchem.com

1.4. Emergency telephone number

- Emergency number: CHEMTREC: 1-800-424-9300 or 011-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

- GHS-US classification:
  - Flam. Liq. 2 H225
  - Skin Irrit. 2 H315
  - Repr. 2 H361
  - STOT SE 3 H336
  - STOT RE 2 H373
  - Asp. Tox. 1 H304

2.2. Label elements

- GHS-US labelling
  - Hazard pictograms (GHS-US):
    - GHS02
    - GHS07
    - GHS08
  - Signal word (GHS-US): Danger
  - Hazard statements (GHS-US):
    - H225 - Highly flammable liquid and vapour
    - H304 - May be fatal if swallowed and enters airways
    - H315 - Causes skin irritation
    - H336 - May cause drowsiness or dizziness
    - H361 - Suspected of damaging fertility or the unborn child
    - H373 - May cause damage to organs through prolonged or repeated exposure
  - 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, sparks, open flames, hot surfaces. - 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
    - P260 - Do not breathe mist, vapours, spray
    - P264 - Wash exposed skin thoroughly after handling
    - P271 - Use only outdoors or in a well-ventilated area
    - P280 - Wear protective gloves, protective clothing, eye protection, face protection
**Toluene**

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P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing
P308+P313 - IF exposed or concerned: Get medical advice/attention
P331 - If swallowed, do NOT induce vomiting
P332+P313 - If skin irritation occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P370+P378 - In case of fire: Use carbon dioxide (CO2), powder, alcohol-resistant foam for extinction
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container to comply with local, state and federal regulations
P235 - Keep cool

---

2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

2.4. Unknown acute toxicity (GHS-US)

No data available

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

3.1. Substance

Substance type : Mono-constituent

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
</table>
| Toluene (Main constituent) | (CAS No) 108-88-3 | 100 | Flam. Liq. 2, H225  
Skin Irrit. 2, H315  
Repr. 2, H361  
STOT SE 3, H336  
STOT RE 2, H373  
Asp. Tox. 1, H304 |

Full text of H-phrases: see section 16

3.2. Mixture

Not applicable

**SECTION 4: First aid measures**

4.1. Description of first aid measures


First-aid measures after inhalation : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact : Wash immediately with lots of water. Soap may be used. Do not apply (chemical) neutralizing agents. Remove clothing before washing. Take victim to a doctor if irritation persists.

First-aid measures after eye contact : Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.


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


Symptoms/injuries after skin contact : Tingling/irritation of the skin.

Symptoms/injuries after eye contact : Irritation of the eye tissue.


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

Obtain medical assistance.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media


Unsuitable extinguishing media: Container may slop over if solid jet (water/foam) is applied.

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

**Fire hazard**: DIRECT FIRE HAZARD. Highly flammable. Gas/vapour flammable with air within explosion limits. INDIRECT FIRE HAZARD. May build up electrostatic charges: risk of ignition. May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard. Reactions involving a fire hazard: see "Reactivity Hazard".

**Explosion hazard**: DIRECT EXPLOSION HAZARD. Gas/vapour explosive with air within explosion limits. INDIRECT EXPLOSION HAZARD. May be ignited by sparks. Reactions with explosion hazards: see "Reactivity Hazard".

**Reactivity**: Upon combustion: CO and CO2 are formed. Reacts violently with (some) halogens. Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion. Violent to explosive reaction with (some) acids.

#### 5.3. Advice for firefighters

**Firefighting instructions**: Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat.

**Protection during firefighting**: Heat/fire exposure: compressed air/oxygen apparatus.

### SECTION 6: Accidental release measures

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

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


##### 6.1.2. For emergency responders

**Protective equipment**: Do not breathe gas, fumes, vapour or spray. Equip cleanup crew with proper protection.

**Emergency procedures**: Stop leak if safe to do so. Ventilate area. If a major spill occurs, all personnel should be immediately evacuated and the area ventilated.

#### 6.2. Environmental precautions

Prevent soil and water pollution.

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

**For containment**: Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to reduce evaporation. Measure the concentration of the explosive gas-air mixture. Dilute/disperse combustible gas/vapour with water curtain. Provide equipment/receptacles with earthing. Do not use compressed air for pumping over spills.

**Methods for cleaning up**: Liquid spill: cover with foam. Take up liquid spill into inert absorbent material, e.g.: sand, earth, vermiculite. Scoop absorbed substance into closing containers. See "Material-handling" for suitable container materials. Carefully collect the spill/leftovers. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

#### 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: Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Handle uncleaned empty containers as full ones. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Observe strict hygiene. Keep container tightly closed. Measure the concentration in the air regularly. Work under local exhaust/ventilation.

Hygiene measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities
Incompatible products: Strong oxidizers.
Incompatible materials: Direct sunlight. Heat sources. Sources of ignition.
Heat and ignition sources: KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.
Prohibitions on mixed storage: KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. halogens.
Storage area: Store at ambient temperature. Ventilation at floor level. Fireproof storeroom. Provide for a tub to collect spills. Provide the tank with earthing. Under a shelter/in the open. Store only in a limited quantity. May be stored under nitrogen. Meet the legal requirements. Keep out of direct sunlight.

Special rules on packaging: SPECIAL REQUIREMENTS: closing. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.


7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Toluene (108-88-3)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH ACGIH TWA (ppm)</td>
<td>20 ppm</td>
</tr>
<tr>
<td>USA ACGIH ACGIH STEL (ppm)</td>
<td>20 ppm</td>
</tr>
<tr>
<td>USA OSHA OSHA PEL (TWA) (ppm)</td>
<td>200 ppm</td>
</tr>
<tr>
<td>USA OSHA OSHA PEL (STEL) (ppm)</td>
<td>500 ppm 10-min peak per 8 hour shift</td>
</tr>
<tr>
<td>USA OSHA OSHA PEL (Ceiling) (ppm)</td>
<td>300 ppm</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.


Hand protection: Gloves.

Eye protection: Safety glasses.

Skin and body protection: Head/neck protection. Protective clothing.

Respiratory protection: Wear gas mask with filter type A if conc. in air > exposure limit.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Appearance: Liquid.
Molecular mass: 92.14 g/mol
Colour: Colourless.
Odour: Aromatic odour.
Odour threshold: 0.2 - 69 ppm
pH: No data available
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Relative evaporation rate (butylacetate=1) : 2.24
Melting point : -95 °C
Freezing point : No data available
Boiling point : 111 °C
Flash point : 4 °C
Critical temperature : 321 °C
Self ignition temperature : 480 °C
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : 29 hPa
Vapour pressure at 50 °C : 109 hPa
Critical pressure : 41077 hPa
Relative vapour density at 20 °C : 3.2
Relative density : 0.87
Relative density of saturated gas/air mixture : 1.6
Density : 870 kg/m³
Vapour pressure : 29 hPa
Vapour pressure at 50 °C : 109 hPa
Critical pressure : 41077 hPa
Relative vapour density at 20 °C : 3.2
Relative density : 0.87
Relative density of saturated gas/air mixture : 1.6
Density : 870 kg/m³
Water: 0.05 g/100ml
Ethanol: Complete
Ether: Complete
Acetone: > 10 g/100ml
Log Pow : 2.73 (Experimental value; Other; 20 °C,Experimental value; Other; 20 °C,Experimental value; Other; 20 °C)
Log Kow : No data available
Viscosity, kinematic : 0.690 mm²/s (20 °C)
Viscosity, dynamic : 0.0006 Pa.s (20 °C)
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : 1.3 - 7 vol %
46 - 270 g/m³

9.2. Other information
Minimum ignition energy : 0.3 mJ
Specific conductivity : 1.0 pS/m
Saturation concentration : 110 g/m³
VOC content : 100 %
Other properties : Gas/vapour heavier than air at 20°C. Clear. Volatile. Substance has neutral reaction. May generate electrostatic charges.

SECTION 10: Stability and reactivity

10.1. Reactivity
Upon combustion: CO and CO₂ are formed. Reacts violently with (some) halogens. Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion. Violent to explosive reaction with (some) acids.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No additional information available

10.4. Conditions to avoid

10.5. Incompatible materials
Strong oxidizers.

10.6. Hazardous decomposition products
Carbon dioxide. Carbon monoxide.
 SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified

**Toluene (108-88-3)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 2000 mg/kg (5580 mg/kg bodyweight; Rat; Rat; Experimental value)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>12223 mg/kg (&gt;5000 mg/kg bodyweight; Rabbit; Rabbit; Experimental value; Other, &gt;5000 mg/kg bodyweight; Rabbit; Rabbit; Experimental value; Other)</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>&gt; 20 mg/l/4h (Rat)</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Not classified

Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Toluene (108-88-3)

IARC group: 3 - Not classifiable

Reproductive toxicity: Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (single exposure): May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure): May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: May be fatal if swallowed and enters airways.


Symptoms/injuries after skin contact: Tingling/irritation of the skin.

Symptoms/injuries after eye contact: Irritation of the eye tissue.


 Likely routes of exposure: Inhalation; Skin and eye contact

 SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: Classification concerning the environment: not applicable.

Ecology - air: TA-Luft Klasse 5.2.5/I.


**Toluene (108-88-3)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes 1</td>
<td>24 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>84 mg/l (24 h; Daphnia magna; Locomotor effect)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>13 mg/l (96 h; Lepomis macrochirus)</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>11.5 - 19.6 mg/l (48 h; Daphnia magna)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>&gt; 400 mg/l (168 h; Scenedesmus quadricauda; Toxicity test)</td>
</tr>
<tr>
<td>Threshold limit algae 2</td>
<td>105 mg/l (192 h; Microcystis aeruginosa)</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

**Toluene (108-88-3)**


Biochemical oxygen demand (BOD): 2.15 g O²/g substance

Chemical oxygen demand (COD): 2.52 g O²/g substance

ThOD: 3.13 g O²/g substance

BOD (% of ThOD): 0.69 % ThOD
# Toluene

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<table>
<thead>
<tr>
<th><strong>12.3. Bioaccumulative potential</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Toluene (108-88-3)</strong></td>
</tr>
<tr>
<td>BCF fish 1</td>
</tr>
<tr>
<td>BCF fish 2</td>
</tr>
<tr>
<td>BCF other aquatic organisms 1</td>
</tr>
<tr>
<td>BCF other aquatic organisms 2</td>
</tr>
<tr>
<td>Log Pow</td>
</tr>
<tr>
<td><strong>Bioaccumulative potential</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>12.4. Mobility in soil</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Toluene (108-88-3)</strong></td>
</tr>
<tr>
<td>Surface tension</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>12.5. Other adverse effects</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>No additional information available</td>
</tr>
</tbody>
</table>

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Do not landfill. Remove to an authorized waste incinerator for solvents with energy recovery. Do not discharge into drains or the environment. May be discharged to company wastewater treatment plant.

Additional information: LWCA (the Netherlands): KGA category 03. Hazardous waste according to Directive 2008/98/EC.

## SECTION 14: Transport information

In accordance with DOT

Transport document description: UN1294 Toluene, 3, II

UN-No.(DOT) | 1294
DOT NA no. | UN1294
DOT Proper Shipping Name | Toluene
Department of Transportation (DOT) Hazard Classes: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT): 3 - Flammable liquid

Packing group (DOT): II - Medium Danger

DOT Special Provisions (49 CFR 172.102): IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 °C (1.1 bar at 122 F), or 130 kPa at 55 °C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal......... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx): 150
DOT Packaging Non Bulk (49 CFR 173.xxx): 202
DOT Packaging Bulk (49 CFR 173.xxx): 242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27): 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 60 L

03/21/2014 EN (English) 7/10
DOT Vessel Stowage Location  :  B - (i) The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) “On deck only” on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

**Additional information**

Other information  :  No supplementary information available.

State during transport (ADR-RID)  :  as liquid.

**ADR**

Transport document description  :  UN 1294 Toluene, 3, II, (D/E)

Packing group (ADR)  :  II

Class (ADR)  :  3 - Flammable liquids

Hazard identification number (Kemler No.)  :  33

Classification code (ADR)  :  F1

Danger labels (ADR)  :  3 - Flammable liquids

Orange plates : ![Orange plate](image)

Tunnel restriction code  :  D/E

**Transport by sea**

UN-No. (IMDG)  :  1294

Class (IMDG)  :  3 - Flammable liquids

EmS-No. (1)  :  F-E

EmS-No. (2)  :  S-D

**Air transport**

UN-No.(IATA)  :  1294

Class (IATA)  :  3 - Flammable Liquids

Packing group (IATA)  :  II - Medium Danger

**SECTION 15: Regulatory information**

**15.1. US Federal regulations**

**Toluene (108-88-3)**

- Listed on the United States TSCA (Toxic Substances Control Act) inventory
- Listed on SARA Section 313 (Specific toxic chemical listings)

- **RQ (Reportable quantity, section 304 of EPA’s List of Lists):** 1000 lb

- **SARA Section 311/312 Hazard Classes:**
  - Immediate (acute) health hazard
  - Fire hazard

**15.2. International regulations**

**CANADA**

**Toluene (108-88-3)**

- Listed on the Canadian DSL (Domestic Substances List) inventory.

- **WHMIS Classification**:
  - Class B Division 2 - Flammable Liquid
  - Class D Division 2 Subdivision B - Toxic material causing other toxic effects
  - Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
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EU-Regulations
No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Flam. Liq. 2 H225
Repr. 2 H361d
Asp. Tox. 1 H304
STOT RE 2 H373
Skin Irrit. 2 H315
STOT SE 3 H336
Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC
F; R11
Repr.Cat.3; R63
Xn; R65
Xn; R48/20
Xi; R38
R67
Full text of R-phrases: see section 16

15.2.2. National regulations

<table>
<thead>
<tr>
<th>Toluene (108-88-3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the Canadian Ingredient Disclosure List</td>
</tr>
</tbody>
</table>

15.3. US State regulations

<table>
<thead>
<tr>
<th>Toluene (108-88-3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - California - Proposition 65 - Developmental Toxicity</td>
</tr>
<tr>
<td>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</td>
</tr>
<tr>
<td>No significance risk level (NSRL)</td>
</tr>
</tbody>
</table>

SECTION 16: Other information

Full text of H-phrases: see section 16:

<table>
<thead>
<tr>
<th>Asp. Tox. 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspiration hazard, Category 1</td>
</tr>
<tr>
<td>Flam. Liq. 2</td>
</tr>
<tr>
<td>Flammable liquids, Category 2</td>
</tr>
<tr>
<td>Repr. 2</td>
</tr>
<tr>
<td>Reproductive toxicity, Category 2</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
</tr>
<tr>
<td>Skin corrosion/irritation, Category 2</td>
</tr>
<tr>
<td>STOT RE 2</td>
</tr>
<tr>
<td>Specific target organ toxicity — Repeated exposure, Category 2</td>
</tr>
<tr>
<td>STOT SE 3</td>
</tr>
<tr>
<td>Specific target organ toxicity — Single exposure, Category 3, Narcosis</td>
</tr>
<tr>
<td>H225</td>
</tr>
<tr>
<td>Highly flammable liquid and vapour</td>
</tr>
<tr>
<td>H304</td>
</tr>
<tr>
<td>May be fatal if swallowed and enters airways</td>
</tr>
<tr>
<td>H315</td>
</tr>
<tr>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H336</td>
</tr>
<tr>
<td>May cause drowsiness or dizziness</td>
</tr>
<tr>
<td>H361</td>
</tr>
<tr>
<td>Suspected of damaging fertility or the unborn child</td>
</tr>
<tr>
<td>H373</td>
</tr>
<tr>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
</tbody>
</table>
NFPA health hazard : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 2 - Normally unstable and readily undergo violent decomposition but do not detonate. Also: may react violently with water or may form potentially explosive mixtures with water.

HMIS III Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability : 1 Slight Hazard

Physical : 2 Moderate Hazard

Personal Protection : H

SDS US (GHS HazCom 2012)

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.