

SECTION 1: Product and company identification

1.1. Product identifier

Product form : Substance
Substance name : Toluene
CAS-No. : 108-88-3
Formula : C7H8

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

Use of the substance/mixture : Industrial use; Use as directed.

1.3. Details of the supplier of the safety data sheet

Praxair, Inc.
10 Riverview Drive
Danbury, CT 06810-6268 - USA
T 1-800-772-9247 (1-800-PRAXAIR) - F 1-716-879-2146
www.praxair.com

1.4. Emergency telephone number

Emergency number : Onsite Emergency: 1-800-645-4633

CHEMTREC, 24hr/day 7days/week
— Within USA: 1-800-424-9300, Outside USA: 001-703-527-3887
(collect calls accepted, Contract 17729)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

GHS US classification

Flam. Liq. 2 H225
Acute Tox. 4 (Oral) H302
Skin Irrit. 2 H315
Eye Irrit. 2B H320
Repr. 2 H361
STOT SE 3 H336
STOT RE 2 H373
Asp. Tox. 1 H304
Aquatic Acute 2 H401

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H225 - HIGHLY FLAMMABLE LIQUID AND VAPOR
H302 - HARMFUL IF SWALLOWED
H304 - MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
H315 - CAUSES SKIN IRRITATION
H320 - CAUSES EYE 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
H401 - TOXIC TO AQUATIC LIFE

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Precautionary statements (GHS US)	<ul style="list-style-type: none"> : P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from Heat/Open flames/Sparks/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 gas/vapors P261 - Avoid breathing gas, vapors P264 - Wash exposed skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product. P271 - Use and store only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P308 - IF EXPOSED OR CONCERNED: P313 - Get medical advice/attention. P312 - Call a poison center/doctor if you feel unwell P301 - IF SWALLOWED: P330 - Rinse mouth. P303 - IF ON SKIN (or hair): P362+P364 - Take off contaminated clothing and wash it before reuse. P353 - Rinse skin with water/shower. P332+P313 - If skin irritation occurs: Get medical advice/attention. P305 - IF IN EYES: P351 - Rinse cautiously with water for several minutes. P338 - Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention. P361 - Take off immediately all contaminated clothing. P362 - Take off contaminated clothing and wash before reuse. P370 - IN CASE OF FIRE: P378 - Use media other than water to extinguish. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up. P501 - Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.
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2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name : Toluene
CAS-No. : 108-88-3

Name	Product identifier	%
Toluene	(CAS-No.) 108-88-3	99.5 - 100

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should give oxygen. Call a physician.

First-aid measures after skin contact : In case of contact, immediately flush affected areas with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash clothing before reuse. Discard contaminated shoes.

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First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. Contact an ophthalmologist immediately..

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/effects : Suspected of damaging fertility or the unborn child. CAUSES DAMAGE TO ORGANS.

Symptoms/effects after inhalation : MAY CAUSE DROWSINESS OR DIZZINESS.

Symptoms/effects after skin contact : CAUSES SKIN IRRITATION.

Symptoms/effects after eye contact : CAUSES EYE IRRITATION.

Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard. 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 : Carbon dioxide, Dry chemical, Water spray or fog.

5.2. Special hazards arising from the substance or mixture

Fire hazard : HIGHLY FLAMMABLE LIQUID AND VAPOR.

Explosion hazard : May form flammable/explosive vapor-air mixture.

Reactivity : Vapor forms explosive mixtures with air and oxidizing agents.

5.3. Advice for firefighters

Firefighting instructions : **Danger: FLAMMABLE LIQUID AND VAPOR.** Evacuate all personnel from danger area. Use self-contained breathing apparatus. Immediately cool surrounding containers with water spray from maximum distance, taking care not to extinguish flames. Avoid spreading burning liquid with water. Remove ignition sources if safe to do so. If flames are accidentally extinguished, explosive reignition may occur. Reduce vapors with fine water spray or fog. Stop flow of liquid if safe to do so, while continuing cooling water spray. Remove all containers from area of fire if safe to do so. Allow fire to burn out. On-site fire brigades must comply with OSHA 29 CFR 1910.156 and applicable standards under 29 CFR 1919 Subpart L - Fire Protection.

Vapor forms explosive mixtures with air and oxidizing agents. If leaking gas catches fire, do not extinguish flames. Flammable and toxic vapors may spread from leak and could explode if reignited by sparks or flames. Vapors are heavier than air and may collect in low spots. Explosive atmospheres may linger. Before entering area, especially confined areas, check with an appropriate device.

Special protective equipment for fire fighters : Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : **Danger: FLAMMABLE LIQUID AND VAPOR..** Vapours form explosive mixtures with air and oxidizing agents. Immediately evacuate all personnel from danger area. Use self-contained breathing apparatus where needed. Remove all sources of ignition if safe to do so. Reduce vapors with fog or fine water spray, taking care not to spread liquid with water. Stop flow of material if safe to do so. Ventilate area or move container to a well-ventilated area. Flammable vapors may spread from leak and could explode if reignited by sparks or flames. Explosive atmospheres may linger. Before entering area, especially confined areas, check atmosphere with an appropriate device.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

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6.2. Environmental precautions

Prevent waste from contaminating the surrounding environment. Prevent soil and water pollution. Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.

6.3. Methods and material for containment and cleaning up

No additional information available

6.4. Reference to other sections

See Heading 8. Exposure controls and 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 : May irritate skin, eyes, and respiratory tract. Use only with adequate ventilation or respiratory protection. Do not get liquid or vapor in eyes, on skin, or on clothing. Have safety showers and eyewash fountains immediately available. May form explosive mixtures with air. Keep away from heat, sparks, and open flame. Use only spark-proof tools and explosion-proof equipment. Protect containers from damage. Use a suitable hand truck to move containers; do not drag, roll, slide, or drop. For other precautions in using this product, see section 16.
- Avoid breathing vapors
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Use only explosion-proof equipment.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep container tightly closed.
- Store only where temperature will not exceed 125°F (52°C). Post "No Smoking/No Open Flames" signs in storage and use areas. There must be no sources of ignition. Separate packages and protect against potential fire and/or explosion damage following appropriate codes and requirements (e.g. NFPA 30, NFPA 55, NFPA 70, and/or NFPA 221 in the U.S.) or according to requirements determined by the Authority Having Jurisdiction (AHJ). Always secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand when the container is not in use. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods. For other precautions in using this product, see section 16.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Toluene (108-88-3)		
ACGIH	ACGIH TLV-TWA (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm
USA IDLH	US IDLH (ppm)	500 ppm
Toluene (108-88-3)		
ACGIH	ACGIH TLV-TWA (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm

8.2. Exposure controls

Appropriate engineering controls	: An explosion-proof local exhaust system or a mechanical system is acceptable if it can prevent oxygen deficiency and keep hazardous fumes and gases below all applicable exposure limits in the worker's breathing area.
Personal protective equipment	: Avoid all unnecessary exposure.
Eye protection	: Chemical goggles or safety glasses. Select eye protection in accordance with OSHA 29 CFR 1910.133.
Skin and body protection	: Wear appropriate chemical gloves when working with this product. Wear protective clothing where needed. Select per OSHA 29 CFR 1910.132, 1910.136, and 1910.138.
Respiratory protection	: When workplace conditions warrant respirator use, follow a respiratory protection program that meets OSHA 29 CFR 1910.134, ANSI Z88.2, or MSHA 30 CFR 72.710 (where applicable). Use an air-supplied or air-purifying cartridge if the action level is exceeded. Ensure that the respirator has the appropriate protection factor for the exposure level. If cartridge type respirators are used, the cartridge must be appropriate for the chemical exposure. For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA).
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
Appearance	: Clear, colorless liquid.
Color	: Colorless
Odor	: characteristic model airplane glue benzene-like
Odor threshold	: 37 ppm (May) 140 mg/m ³ (May)
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: 2.24
Melting point	: -95 °C
Freezing point	: No data available
Boiling point	: 110.6 °C
Flash point	: 4 °C
Critical temperature	: 319.9 °C
Auto-ignition temperature	: 480 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: 1.1 - 7 vol %
Vapor pressure	: 0.03 bar (0.4 psia) (at 20 °C)
Relative vapor density at 20 °C	: No data available
Relative density	: 0.87
Density	: 0.867 g/ml (54.125 lb/ft ³) (at 21.1 °C and 14.696 psia)
Solubility	: Water: 515 mg/l (at 20 °C)
Log Pow	: 2.7
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: May form flammable/explosive vapor-air mixture.
Oxidizing properties	: No data available
Explosion limits	: No data available

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

Vapor forms explosive mixtures with air and oxidizing agents.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Extremely high or low temperatures. Open flame. Sparks.

10.5. Incompatible materials

Oxidizing agents, especially. Oxygen. Chlorine. Fluorine.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: HARMFUL IF SWALLOWED.

Toluene (1f)108-88-3	
LD50 oral rat	636 mg/kg body weight
LD50 dermal rabbit	12000 mg/kg
LC50 inhalation rat (mg/l)	49 mg/l/4h
LC50 inhalation rat (ppm)	56976 ppm/1h
ATE US (oral)	636 mg/kg body weight
ATE US (dermal)	12000 mg/kg body weight
ATE US (gases)	28488 ppmV/4h
ATE US (vapors)	49 mg/l/4h
ATE US (dust, mist)	49 mg/l/4h

Toluene (108-88-3)	
LD50 oral rat	636 mg/kg body weight
LD50 dermal rabbit	12000 mg/kg
LC50 inhalation rat (mg/l)	49 mg/l/4h
LC50 inhalation rat (ppm)	56976 ppm/1h
ATE US (oral)	636 mg/kg body weight
ATE US (dermal)	12000 mg/kg body weight
ATE US (gases)	28488 ppmV/4h
ATE US (vapors)	49 mg/l/4h
ATE US (dust, mist)	49 mg/l/4h

Skin corrosion/irritation : CAUSES SKIN IRRITATION.

Serious eye damage/irritation : CAUSES EYE IRRITATION.

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Toluene (108-88-3)	
IARC group	3 - Not classifiable

Toluene (108-88-3)	
IARC group	3 - Not classifiable

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

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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.
Potential Adverse human health effects and symptoms	: HARMFUL IF SWALLOWED.
Symptoms/effects after inhalation	: MAY CAUSE DROWSINESS OR DIZZINESS.
Symptoms/effects after skin contact	: CAUSES SKIN IRRITATION.
Symptoms/effects after eye contact	: CAUSES EYE IRRITATION.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

SECTION 12: Ecological information

12.1. Toxicity

Toluene (108-88-3)	
LC50 fish 1	15.22 - 19.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	5.46 - 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Toluene (108-88-3)	
LC50 fish 1	17.135 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	7.645 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2. Persistence and degradability

Toluene (108-88-3)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Toluene (108-88-3)	
Log Pow	2.7
Bioaccumulative potential	Not established.
Toluene (108-88-3)	
Log Pow	2.7

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

Regional legislation (waste)	: U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII. U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring. U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261. U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents. U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards. U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring. U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics.
Product/Packaging disposal recommendations	: Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.
Additional information	: Handle empty containers with care because residual vapors are flammable.

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Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

Transport document description : UN1294 Toluene, 3, II
 UN-No.(DOT) : UN1294
 Proper Shipping Name (DOT) : Toluene
 Class (DOT) : 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.

Additional information

Emergency Response Guide (ERG) Number : 130
 Other information : No supplementary information available.

Transport by sea

UN-No. (IMDG) : 1294
 Proper Shipping Name (IMDG) : TOLUENE
 Class (IMDG) : 3 - Flammable liquids
 Packing group (IMDG) : II - substances presenting medium danger

Air transport

UN-No. (IATA) : 1294
 Proper Shipping Name (IATA) : Toluene
 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	
Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	1000 lb
SARA Section 311/312 Hazard Classes	Fire hazard Delayed (chronic) health hazard Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	1 %

Toluene (108-88-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

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Toluene (108-88-3)	
CERCLA RQ	1000 lb
SARA Section 313 - Emission Reporting	1 %

15.2. International regulations

CANADA

Toluene (108-88-3)	
Listed on the Canadian DSL (Domestic Substances List)	
Toluene (108-88-3)	
Listed on the Canadian DSL (Domestic Substances List)	

EU-Regulations

Toluene (108-88-3)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	
Toluene (108-88-3)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	

15.2.2. National regulations

Toluene (108-88-3)	
Listed on the AICS (Australian Inventory of Chemical Substances)	
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)	
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory	
Listed on the Japanese ISHL (Industrial Safety and Health Law)	
Listed on the Korean ECL (Existing Chemicals List)	
Listed on NZIoC (New Zealand Inventory of Chemicals)	
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)	
Japanese Poisonous and Deleterious Substances Control Law	
Japanese Pollutant Release and Transfer Register Law (PRTR Law)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
Listed on INSQ (Mexican National Inventory of Chemical Substances)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
Listed on the TCSI (Taiwan Chemical Substance Inventory)	
Toluene (108-88-3)	
Listed on the AICS (Australian Inventory of Chemical Substances)	
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)	
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory	
Listed on the Japanese ISHL (Industrial Safety and Health Law)	
Listed on the Korean ECL (Existing Chemicals List)	
Listed on NZIoC (New Zealand Inventory of Chemicals)	
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)	
Japanese Poisonous and Deleterious Substances Control Law	
Japanese Pollutant Release and Transfer Register Law (PRTR Law)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
Listed on INSQ (Mexican National Inventory of Chemical Substances)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
Listed on the TCSI (Taiwan Chemical Substance Inventory)	

15.3. US State regulations

Toluene(108-88-3)	
U.S. - California - Proposition 65 - Carcinogens List	No
U.S. - California - Proposition 65 - Developmental Toxicity	Yes
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S. - Massachusetts - Right To Know List

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Toluene(108-88-3)	
	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List

Toluene (108-88-3)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	Yes	No	No	

Toluene (108-88-3)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Other information

: When you mix two or more chemicals, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Before using any plastics, confirm their compatibility with this product.

Praxair asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information.

The opinions expressed herein are those of qualified experts within Praxair, Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use are not within the control of Praxair, Inc, it is the user's obligation to determine the conditions of safe use of the product.

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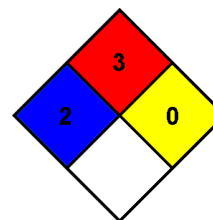
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Revision date : 01/29/2019

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.





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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.