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ACCORDING TO OSHA HCS (29 CFR 1910.1200)



### **SECTION 1: IDENTIFICATION**

| Product identifier  |  |
|---|--|
| Product name  |  |
| CAS No.   | 108-88-3   |
| Other means of identification   | Toluol; phenylmethane; methylbenzene;benzene, methyl-; |
| Relevant identified uses of the substance or mixture and uses advised against |  |
| Identified Use(s)   | Refinery feedstock.                                    |
| Uses advised against  | Anything other than the above.                         |
| Details of the supplier of the safety data sheet                              |  |
| Supplier  | Vitol Inc.   |
|   | 2925 Richmond Ave, 11th Floor                          |
|   | Houston, TX 77098                                      |
| Telephone   | (713) 230-1000   |
| Fax   | 713-230-1185   |
| E-mail (competent person)   | SDSHOU@vitol.com                                       |
|   |  |

**Emergency telephone number** Emergency Phone No.

Chemtrec: US/Canada: 1-800-424-9300 (24h) Mexico: 800 681 9531 (24h)

### **SECTION 2: HAZARDS IDENTIFICATION**

Classification of the substance or mixture in accordance with paragraph (d) of 29 CFR 1910.1200

Physical hazards Health hazards Flammable Liquid, Category 2 Aspiration hazard, Category 1 Skin Corrosion/Irritation, Category 2 Specific target organ toxicity — single exposure, Category 3 (Narcotic effects) Reproductive toxicity, Category 2 Specific target organ toxicity — repeated exposure, Category 2 Hazardous to the aquatic environment, Chronic, Category 3

Environmental hazards

Label elements

Hazard Pictogram(s)

Signal Word(s)

Hazard Statement(s)

Precautionary Statement(s)



DANGER

| Highly flammable liquid and vapour.<br>May be fatal if swallowed and enters airways.<br>Causes skin irritation.<br>May cause drowsiness or dizziness.<br>Suspected of damaging fertility or the unborn child.<br>May cause damage to organs through prolonged or repeated exposure.<br>Harmful to aquatic life with long lasting effects. |
|---|
| Keep away from heat, hot surfaces, sparks, open flames and other ignition<br>sources. No smoking.<br>Keep container tightly closed.<br>Store in a well-ventilated place. Keep cool.   |

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|   | Obtain special instructions before use.<br>Do not breathe vapour.<br>Wear protective gloves/eye protection/face protection.<br>IF SWALLOWED: Immediately call a POISON CENTER/doctor.<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact<br>lenses, if present and easy to do. Continue rinsing.<br>Immediately call a POISON CENTER/doctor.<br>Do NOT induce vomiting.<br>Avoid release to environment.<br>Dispose of contents in accordance with local, state or national legislation. |
|---|--|
| Other hazards   | None known   |
| Percent of the mixture consists of ingredient(s) of unknown acute toxicity: | 0% of the mixture consists of ingredients of unknown acute inhalated toxicity.<br>0% of the mixture consists of ingredients of unknown acute oral toxicity.  |

0% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

| Chemical identity of the substance | %W/W | CAS No.  | EC No.    |
|------------------------------------|------|----------|-----------|
| Toluene                            | >99  | 108-88-3 | 203-625-9 |

### **SECTION 4: FIRST AID MEASURES**



| Description of first aid measures                           |  |
|---|--|
| Self-protection of the first aider                          | Avoid all contact. Do not breathe vapour. Eliminate sources of ignition. If it is suspected that fumes are still present, the responder should wear an appropriate mask or self-contained breathing apparatus. Drench contaminated clothing with water before removing to avoid risk of sparks from static electricity. Do not use mouth-to-mouth resuscitation. No action should be taken involving personal risk. Wear appropriate personal protective equipment, avoid direct contact. Avoid exposure during pregnancy. Do not ingest. If swallowed then seek immediate medical assistance. |
| Inhalation  | IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Apply artificial respiration only if patient is not breathing but do not use mouth to mouth resuscitation. Get medical advice/attention if you feel unwell.   |
| Skin contact  | IF ON SKIN (or hair): Remove contaminated clothing immediately and wash affected skin with plenty of water or soap and water. If irritation persists, get medical attention.   |
| Eye contact   | IF IN EYES: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention. If irritation develops and persists, get medical attention.   |
| Ingestion   | IF SWALLOWED: rinse mouth. Do NOT induce vomiting. If unconscious, place in recovery position and get medical attention immediately. Wash out mouth with water and give small quantities of water to drink. Do not give anything by mouth to an unconscious person. Get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Do not wait for symptoms to appear.  |
| Most important symptoms and effects, both acute and delayed | May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.   |

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Indication of any immediate medical attention and special treatment needed Notes to a physician: Treat symptomatically.

IF SWALLOWED: Do not induce vomiting because of risk of aspiration into the lungs. If aspiration is suspected obtain immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs.

#### SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Suitable extinguishing media

Unsuitable extinguishing media Special hazards arising from the substance or Extinguish with sand or dry chemical. Foam, Carbon dioxide, Water fog or dry powder

Do not use water jet. Direct water jet may spread the fire.

Highly flammable liquid and vapour. Will float and can be reignited on surface water. A mixture of solid and liquid particulates and gases including unidentified organic and inorganic compounds. May form explosive mixture with air. Prevent liquid entering sewers, basements and any watercourses. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback.

Advice for firefighters

mixture

Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid release to the environment. Dike fire control water for later disposal.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Caution - spillages may be slippery. Ensure operatives are trained to minimise exposures. Ensure suitable personal protection during removal of spillages. Eliminate sources of ignition. Shut off leaks if without risk. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid all contact. Do not breathe vapour. Ensure adequate ventilation. Do not ingest. If swallowed then seek immediate medical assistance. Do not use sparking tools. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Avoid exposure during pregnancy.

Methods and material for containment and cleaning up

Provided it is safe to do so, isolate the source of the leak. Use non-sparking equipment when picking up flammable spill. The vapour is heavier than air; beware of pits and confined spaces. Ensure that the equipment is adequately grounded. Allow small spillages to evaporate provided there is adequate ventilation. Wear flame-resistant antistatic protective clothing. Wear chemical protection suit and breathing apparatus.

#### SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Conditions for safe storage, including any

Obtain special instructions before use. Keep away from sources of ignition - No smoking. Use only outdoors or in a well-ventilated area. Prevent vapour build up by providing adequate ventilation during and after use. May form explosive mixtures with air. Take action to prevent static discharges. Use non-sparking tools. All parts of the plant and equipment should be electrically bonded together and connected to earth. Electrical continuity should be checked at regular intervals. Antistatic clothing and footwear should be used. The vapour is heavier than air; beware of pits and confined spaces. Avoid all contact with substance. Do not ingest. If swallowed then seek immediate medical assistance. Do not breathe vapour. See Section: 8. Keep good industrial hygiene. Wash hands thoroughly after handling. Contaminated clothing should be thoroughly cleaned.

Light hydrocarbon vapours can build up in the headspace of containers. These can cause flammability / explosion hazards. Bund storage facilities to prevent soil and water pollution in the event of spillage. Keep only in original packaging. Keep containers properly sealed when not in use. Protect from sunlight. Containers of this material may be hazardous when empty since they retain product residue. Empty container may contain product residue which may result in flammable or explosive vapours inside the container. Stable at ambient temperatures.

Storage temperature

incompatibilities

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Incompatible materials

Strong oxidising agents

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Occupational exposure limits

| SUBSTANCE | CAS No.  | LTEL (8 hr TWA<br>ppm) | LTEL (8 hr TWA<br>mg/m³) | STEL (ppm) | STEL (mg/m <sup>3</sup> ) | Note  |
|-----------|----------|------------------------|--------------------------|------------|---------------------------|-------|
|           |          | 100                    | 375                      | 150        | 560                       | NIOSH |
| Toluene   | 108-88-3 | -                      | -                        | 300        | -                         | OSHA  |
|           |          | 20                     | -                        | -          | -                         | ACGIH |

Note: OSHA PELs 1910.1000 TABLE Z-1/2/3 (delete as appropriate)/ NIOSH RELs / ACGIH TLVs

**Biological exposure indicies** 

Not established

| SUBSTANCE | CAS No.  | Determinant                       | Biological Exposure<br>Indices | Sampling Time                   | Note |
|-----------|----------|-----------------------------------|--------------------------------|---------------------------------|------|
|           |          | Toluene in blood                  | 0.02 mg/l                      | Prior to last shift of workweek | -    |
| Toluene   | 108-88-3 | Toluene in urine                  | 0.03 mg/l                      | End of shift                    | -    |
|           |          | o-Cresol in urine with hydrolosis | 0.3 mg/g creatinine            | End of shift                    | В    |

Source: ACGIH: American Conference of Governmental Industrial Hygienists - Biological Exposure Index (BEI) 2019

Note:

B: Background

| Appropriate engineering controls                                      | Provide adequate ventilation, including appropriate local extraction if dusts, fumes or vapours are likely to be evolved. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Guarantee that the eye flushing systems and safety showers are located close to the working place.   |
|---|--|
| Individual protection measures, such as personal protective equipment | Fuels are typically used, transferred and transported in closed systems. If exposure is likely (i.e. during sampling) the following advice may be appropriate. Keep good industrial hygiene. Always wash hands before smoking, eating and drinking. Do not eat, drink or smoke at the work place. Avoid all contact. Do not breathe vapour. Avoid exposure during pregnancy. |

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye/ face protection



Skin protection



Use eye protection according to EN 166, designed to protect against liquid splashes.

**Vitol** 

Toluene

**Hand protection:** Wear impervious gloves (recommended: EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Protective index 6, corresponding > 480 minutes of permeation time according to EN 374. Efficiency of at least 80%).

Recommended: Nitrile rubber; Flouroelastomer (Minimum thickness – 0.5 – 0.65mm).

#### Body protection: Wear anti-static clothing and shoes.

Small scale: Wear suitable coveralls to prevent exposure to the skin. Large scale: Chemical protection suit.

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Respiratory protection



When the product is heated / In case of inadequate ventilation wear respiratory protection. The use of a high efficiency filter (recommended: EN143) is recommended. Filter type A1.

Closed system(s): Not normally required.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties Appearance Odour Odour threshold pH Melting point/freezing point Initial boiling point and boiling range Flash point

Evaporation rate Flammability (solid, gas) Upper/lower flammability or explosive limits Vapour pressure Vapour density Relative density Solubility(ies) Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity

### SECTION 10: STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions

Conditions to avoid

Incompatible materials Hazardous decomposition products

Colourless liquid Sweet, pungent, Benzene-like 1.6 ppm Not applicable. -95°C (-139°F) 110.6°C (231.1°F) CLOSED CUP: 4.4444°C (40°F). (Setaflash) OPEN CUP: 16°C (60.8°F). Not determined Not applicable - Liquid Not determined 3.8 kPa (@ 25°C) 3.1 (Air = 1) Not determined Solubility in water: 0.561 g/l @ 25 deg. C. Not determined Not determined Not determined Not determined

Stable under normal conditions. Reacts with - Strong oxidising agents Stable under normal conditions. Hazardous polymerisation will not occur. Highly flammable liquid and vapour. May form explosive mixture with air. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback.

Elevated temperature. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from direct sunlight. Keep away from strong oxidizing substances.

A mixture of solid and liquid particulates and gases including unidentified organic and inorganic compounds. Decomposes in a fire giving off toxic fumes: COx, H2S, SOx,

### SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity - Ingestion

Acute toxicity - Inhalation

Acute toxicity - Skin contact

Skin corrosion/irritation

Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity Calculated acute toxicity estimate (ATE) >2,000 mg/kg. Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg. Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) > 5 mg/L (Vapour)

Based upon the available data, the classification criteria are not met.

Skin Corrosion/Irritation, Category 2: Causes skin irritation.

Irritating to skin. (rabbit) (EU Method B.4)

Based upon the available data, the classification criteria are not met. Based upon the available data, the classification criteria are not met. Based upon the available data, the classification criteria are not met. Based upon the available data, the classification criteria are not met. Reproductive toxicity, Category 2: Suspected of damaging fertility or the unborn child.

Reproductive toxicity: NOAEC (rat) (inhalation exposure) mg/m3: 2261. (Ono,

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|  | 1996)<br>Developmental toxicity: NOAEC (rat) (inhalation exposure) mg/m <sup>3</sup> : 4522. (Thiel,  |
|--|---|
| STOT - single exposure                   | 1997)<br>Based upon the available data, the classification criteria are not met.  |
| STOT - repeated exposure                 | Specific target organ toxicity — repeated exposure, Category 2: May cause   |
|  | damage to organs through prolonged or repeated exposure.  |
|  | Causes dizziness. (Human volunteers) (SCOEL, 2001)  |
| Aspiration hazard                        | Aspiration hazard, Category 1: May be fatal if swallowed and enters airways.  |
|  | Dynamic viscosity: 0.56 mPa s (@25°C)   |
|  | Surface tension: 27.93nM (@25°C)  |
| Information on likely routes of exposure |   |
| Inhalation                               | Possible – accidental exposure  |
| Ingestion                                | Possible – accidental exposure  |
| Skin contact                             | Possible – accidental exposure  |
| Eye contact                              | Unlikely – accidental exposure  |
| Early onset symptoms related to exposure | Causes skin irritation. May cause drowsiness or dizziness   |
| Delayed health effects from exposure     | May be fatal if swallowed and enters airways. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. |
| Exposure levels and health effects       | See Section: 8  |
| Interactive effects                      | May be fatal if swallowed and enters airways.   |
| Other information                        |   |
| OSHA Designated Carcinogen               | Not listed  |
| NIOSH Occupational Carcinogen List       | Not listed  |
| NTP Report on Carcinogens                | Not listed  |
| IARC Monographs                          | Listed  |
|  |   |

## SECTION 12: ECOLOGICAL INFORMATION

| Toxicity                      | Hazardous to the aquatic environment, Chronic, Category 3: Harmful to aquatic |
|-------------------------------|---|
|                               | life with long lasting effects.   |
|                               | Chronic Toxicity: NOEC (Fish) mg/l (40 days) 1.4 (Moles, 1981)                |
| Persistence and degradability | Readily biodegradable.  |
|                               | 69% Degradation in Water (5 days) (Bridie et al. 1979)                        |
| Bioaccumulative potential     | The substance has low potential for bioaccumulation.                          |
|                               | BCF: 90 (Freitag D et al. 1985)   |
| Mobility in soil              | The substance is predicted to have high mobility in soil.                     |
| -                             | Koc: 205 (European Chemicals Bureau, 2003)                                    |
| Other adverse effects         | None known.   |
|                               |   |

## SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of this material and its container as hazardous waste. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Disposal should be in accordance with local, state or national legislation. Containers of this material may be hazardous when empty since they retain product residue.

## **SECTION 14: TRANSPORT INFORMATION**

UN number UN proper shipping name Transport hazard class(es) Packing group Road/rail (ADR/RID) UN1294 Toluene 3 II Sea transport (IMDG) UN1294 Toluene 3 II Air (ICAO/IATA) UN1294 Toluene 3 II

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#### **Environmental hazards**

Not applicable

See Section: 2

Not applicable

Not classified as a Marine Pollutant. Not applicable

Special precautions for user Transport in bulk according to Annex II of Marpol and the IBC Code

### **SECTION 15: REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture

| US Federal Regulations                         |                               |
|--|-------------------------------|
| TSCA Chemical Data Reporting (CDR) Rule        | Listed                        |
| NIOSH Occupational Carcinogen List             |                               |
| EPCRA Section 313                              | Listed (De Minimis limit: 1%) |
| CWA 307- Toxic                                 | Listed                        |
| CERCLA - Hazardous Substances                  | Listed (RQ = 1000 lbs)        |
| CWA Section 311 List of Hazardous Substances   | Listed                        |
|  |                               |
| US State Regulations                           |                               |
| Proposition 65 (California)                    | Listed                        |
| Massachusetts, New Jersey, Pennsylvania, Rhode | Listed                        |
| Island- State Right to Know Lists              |                               |
| New York -State Right to Know Lists            | Listed                        |
| Minnesota - State Right to Know Lists          | Listed                        |
| Massachusetts – Toxic Use reduction act        | Listed                        |
|  |                               |
| Non-Regional                                   |                               |
| IARC Monographs                                | Listed                        |
|  |                               |

### **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: Updated substance / mixture classification. Updated version and date. New format has been issued, all sections have been updated to include new information. Review SDS with care.

 Version
 3.0

 Revision Date
 14 April 2021

 Date of First Issue
 Not available. 2<sup>ND</sup> ISSUE RELEASED JUNE, 15 2015

This Safety Data Sheet was prepared in accordance with US Regulation OSHA HCS (29 CFR 1910.1200)

#### **References:**

Existing Safety Data Sheet (SDS),

EU Harmonised Classification and Existing ECHA registration for Toluene (CAS No. 108-88-3).

#### Literature Sources:

- Ono A, Sekita K, Ogawa Y, Hirose A, Suzuki S, Saito M, Naito K, Kaneko T, Furuya T, Kawashima K, Yasuhara K, Matsumoto K, Tanaka S, Inoue T and Kurokawa Y. 1996. Reproductive and developmental toxicity studies of toluene II. Effects of inhalation exposure on fertility in rats. Journal of Environmental Pathology Toxicology and Oncology 15, 9-20.
- 2. Thiel R and Chahoud I. 1997. Postnatal development and behaviour of Wistar rats after prenatal toluene exposure. Arch Toxicol (1997) 71, 258-265.Lide D (Ed.). 2008. CRC Handbook of Chemistry and Physics, 89th Edition. CRC Press Inc. Boca Raton. USA.
- 3. Scientific Committee on Occupational Exposure Limits, 2001. Recommendation from the Scientific Committee on Occupational Exposure Limits for toluene.
- 4. Moles A, Bates S, Rice SD, Korn S. 1981. Reduced growth of Coho salmon fry exposed to two petroleum components, toluene and naphthalene in fresh water. Transactions A. Fish. Soc. 110, 430-436.
- 5. Bridie, Wolff and Winter. 1979. BOD and COD of some petrochemicals. Water Research 13, 627-630.
- 6. Freitag D, Ballhorn L, Geyer H, Korte F. 1985. Environmental Hazard profile of organic chemicals. Chemosphere 14 (10). 1589-1616.
- 7. European Chemicals Bureau. 2003. Technical Guidance Document on Risk Assessment Part III. European Commission Joint Research Centre. EUR 20418 EN/3.

| Classification of the substance or mixture in     | Classification procedure |
|---|--------------------------|
| accordance with paragraph (d) of 29 CFR 1910.1200 | Classification procedure |



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| Flammable Liquid, Category 2  | Flash point / Boiling Point (°C)                               |
|---|--|
| Aspiration hazard, Category 1   | High percentage inclusion of components with aspiration hazard |
| Skin Corrosion/Irritation, Category 2   | Threshold calculation  |
| Specific target organ toxicity — single exposure, Category 3 (Narcotic effects) | Threshold calculation  |
| Reproductive toxicity, Category 2   | Threshold calculation  |
| Specific target organ toxicity — repeated exposure,<br>Category 2               | Threshold calculation  |
| Hazardous to the aquatic environment, Chronic, Category 3                       | Summation Calculation  |

## LEGEND

| ADR/RID ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road concerning the international railway transport of dangerous goods | d / RID: Regulations |
|--|----------------------|
| ATE Acute Toxicity Estimate  |                      |
| BCF Bioconcentration factor (BCF)  |                      |
| CAS Chemical Abstracts Service   |                      |
| CERCLA Comprehensive Environmental Response Compensation and Liability Act   |                      |
| CWA Clean Water Act  |                      |
| EC European Community  |                      |
| ECHA European Chemicals Agency   |                      |
| EPCRA Emergency Planning and Community Right-to-Know Act   |                      |
| EN European Standard   |                      |
| EU European Union  |                      |
| IARC International Agency for Research on Cancer   |                      |
| ICAO/IATA International Civil Aviation Organization / International Air Transport Association  |                      |
| IMDG IMDG: International Maritime Dangerous Goods  |                      |
| LC50 Lethal concentration at which 50% of the population is killed   |                      |
| LD50 Lethal dose at which 50% of the population is killed  |                      |
| LTEL Long term exposure limit  |                      |
| OECD Organisation for Economic Cooperation and Development   |                      |
| OSHA The Occupational Safety & Health Administration   |                      |
| STEL Short term exposure limit   |                      |
| TSCA Toxic Substance Control Act   |                      |
| TWA Time Weighted Average  |                      |
| UN United Nations  |                      |

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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