

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
 Product name : Natco Bead Sealer
 Product code : BS16 (16 oz. can), BS32 (32 oz. can)
 Formula : Toluene (Methyl Benzene), Rubber Blend, Aromatic / Naphthenic Oil

1.2. Recommended use and restrictions on use

Recommended use : Tire Bead Sealer

1.3. Supplier

Natco Manufacturing Ltd.
 1456 Church Avenue
 Winnipeg, Manitoba
 R2X 1G4
 Ph: (204) 633-5432
 Fax: (204) 694-3320

1.4. Emergency telephone number

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

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

: This material is considered hazardous by Health Canada Hazardous Product regulations (WHMIS 2015), and by the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

Classification (GHS CA)

Flammable Liquids : Category 2
 Skin Corrosion / Irritant : Category 2
 Aspiration hazard : Category 1
 Reproductive Toxicity : Category 2
 Serious Eye Damage / Eye Irritant : Category 2
 Skin Sensitization : Category 1
 Germ Cell Mutagenicity : Category 2
 Carcinogenicity : Category 1A
 STOT, Single Exposure : Category 3
 STOT, Repeated Exposure : Category 2
 Hazardous to the Aquatic Environment, Acute : Category 3

Full text of H statements : See Section 16

2.2. GHS Label elements, including precautionary statements

GHS-CA labelling

Signal Word : **Danger!**

Pictograms



GHS02 Flammable



GHS07 Harmful



GHS08 Health Hazard

Hazard Statements

H225 : Highly flammable liquid and vapor
 H304 : May be fatal if swallowed and enters airway
 H315 : Causes skin irritation
 H319 : Causes serious eye irritation
 H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled
 H336 : May cause drowsiness or dizziness
 H341 : Suspected of causing genetic defects
 H350 : May cause cancer
 H361 : Suspected of damaging fertility or the unborn child
 H373 : May cause damage to organs through prolonged or repeated exposure
 H402 : Harmful to aquatic life

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Precautionary Statements -- For Prevention

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
P260	: Do not breathe dust / fumes / gas / mist / vapors / spray
P264	: Wash face, hands and any exposed skin thoroughly after handling
P271	: Use only outdoors or in a well-ventilated area
P272	: Contaminated work clothing should not be allowed out of the workplace
P273	: Avoid release to the environment
P280	: Wear protective gloves, protective clothing, eye protection and / or face protection

Precautionary Statements -- For Response

P301 + P310	: IF SWALLOWED: Immediately call a POISON Center / doctor
P303 + P361 + P353	: IF ON SKIN (or Hair): Take off immediately all contaminated clothing. Rinse skin, hair with plenty of water
P304 + P340	: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305 + P351 + P338	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do -- continue rinsing
P308 + P313	: If exposed or concerned - get medical advice / attention
P312	: Call a POISON CENTER / doctor if you feel unwell
P314	: Get medical advice / attention if you feel unwell
P331	: DO NOT induce vomiting
P333 + P313	: If skin irritation or rash occurs: Get medical advice / attention
P337	: If eye irritation persists: Get medical advice / attention
PP362 + P364	: Take off contaminated clothing and wash before re-use
P370 + P378	: In case of fire: Use carbon dioxide (CO2), powder, alcohol-resistant foam to extinguish

Precautionary Statements -- For Storage

P403 + P235	: Store in a well-ventilated place. Keep cool
P405	: Store locked up

Precautionary Statements -- For Disposal

P501	: Dispose of contents / container to an approved waste disposal plant according to federal, state, provincial, local regulations
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2.3. Other hazards

Other hazards	: Harmful to aquatic life with long lasting effects.
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SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type	: Not applicable
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3.2. Mixtures

Name	Product identifier	%
Toluene	CAS: 108-88-3	25 - 40%
Carbon Black		< 5% *
Aromatic / Naphthenic Oil		< 5% *

* Exact Formula — Proprietary Generated by Natco Manufacturing Ltd.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require no reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

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SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give alcohol to drink.
- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not use mouth-to-mouth method, give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- First-aid measures after skin contact : Wash off immediately with plenty of water for at least 15 minutes. Soap may be used. Do not apply (chemical) neutralizing agents. Remove clothing before washing. If irritation persists. Take victim to a doctor/medical service for immediate attention
- First-aid measures after eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.
- First-aid measures after ingestion : Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not give milk/oil to drink. Do not induce vomiting. Give activated charcoal. Call Poison Information Centre. Consult a doctor/medical service if you feel unwell.
: Ingestion of large quantities: immediately to hospital. Do not induce vomiting. Call a physician or Poison Control Center immediately.

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

- Symptoms/effects after inhalation : EXPOSURE TO HIGH CONCENTRATIONS: Headache. Nausea. Feeling of weakness. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Central nervous system depression. Narcosis. Mental confusion. Drunkenness. Coordination disorders. Disturbed motor response. Disturbances of consciousness. May cause irritation to the respiratory tract.
- Symptoms/effects after skin contact : Symptoms of allergic reaction may include rash, itching, swelling. May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
- Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
- Symptoms/effects after ingestion : Risk of aspiration, pneumonia. Nausea. Abdominal pain. Irritation of the gastric / intestinal mucosa. Symptoms similar to those listed under inhalation.
- Chronic symptoms : ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry skin. Skin rash/inflammation, impairment of the nervous system. Tremor. Impaired memory. Impaired concentration. Brain affection. Disturbances of heart rate. Change in the haemogramme / blood composition.

4.3. Immediate medical attention and special treatment, if necessary

- Other medical advice or treatment : In case of accident or if you feel unwell, seek medical advice immediately (show the label and this Safety Data Sheet to medical professional)

Notes to Physician : Treat symptomatically

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

- Suitable extinguishing media : Quick-acting ABC powder extinguisher. Quick-acting BC powder extinguisher. Quick-acting class B foam extinguisher. Quick-acting CO2 extinguisher. Class B foam (not alcohol-resistant).

5.2. Unsuitable extinguishing media

- Unsuitable extinguishing media : Water (quick-acting extinguisher, reel); risk of puddle expansion. Water; risk of puddle expansion

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5.3. Specific hazards arising from the hazardous product

- Fire hazard : DIRECT FIRE HAZARD: Highly flammable liquid and vapour. 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 : Reacts violently with (some) halogens. Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion. Violent to explosive reaction with (some) acids.

5.4. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Fire-fighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, when battling fires in enclosed spaces. Standard breathing apparatus (SCBA with a full face-piece operated in positive pressure mode) should also be used or available for use if needed
- Special Firefighting Procedures : Move containers from the fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.
- : Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding area. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. Also see the information in "For non-emergency personnel".

6.2. Methods and materials for containment and cleaning up

- For containment and cleaning up : Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal. Ventilate contaminated area. Contaminated soil must be dug up and treated to protect groundwater. Dispose of via a licensed waste disposal contractor. Package all material in plastic, cardboard or metal containers for disposal in accordance with federal, state, provincial and local regulations.
- Notification procedures : Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.

6.3. Environmental precautions

- Environmental precautions : Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

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 : Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly. Work under local exhaust/ventilation. 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.
- 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.

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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.
Packaging materials	: SUITABLE MATERIAL: metal. stainless steel. carbon steel. aluminium. nickel. polypropylene. glass. tin. MATERIAL TO AVOID: polyethylene.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Toluene (108-88-3)		
ACGIH	ACGIH TWA (ppm)	20 ppm
OSHA	OSHA PEL (TWA) (ppm)	200 ppm
OSHA	OSHA PEL (STEL) (ppm)	500 ppm 10-min peak per 8 hour shift
OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm
IDLH	US IDLH (ppm)	500 ppm
NIOSH	NIOSH REL (TWA) (mg/m ³)	375 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	100 ppm
NIOSH	NIOSH REL (STEL) (mg/m ³)	560 mg/m ³
NIOSH	NIOSH REL (STEL) (ppm)	150 ppm
Carbon Black	: Not applicable	
Aromatic / Naphthenic Oil	: Not applicable	

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

8.2. Appropriate engineering controls

Appropriate engineering controls	: Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Materials for protective clothing:

GIVE GOOD RESISTANCE	: tetrafluoroethylene. viton. PVA
GIVE LESS RESISTANCE	: butyl rubber. natural rubber. neoprene. nitrile rubber. polyethylene. neoprene/natural rubber. nitrile rubber/PVC.
GIVE POOR RESISTANCE	: chloroprene rubber
Hand protection	: Gloves
Eye protection	: Safety glasses
Skin and body protection	: Head/neck protection : Protective clothing
Respiratory protection	: Full face mask with filter type A at conc. in air > exposure limit

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Color	: Black
Odour	: Aromatic odour
Odour threshold	: 0.2 - 69 ppm 0.8 - 276 mg/m ³
pH	: No data available
Melting point	: -95 °C (1013 hPa)
Freezing point	: No data available
Boiling point	: 110.6 °C (1013 hPa)
Critical temperature	: 321 °C
Critical pressure	: 41077 hPa
Flash point	: 4.4 °C (Closed cup, 1013 hPa)
Relative evaporation rate (butylacetate=1)	: 2.24
Flammability (solid, gas)	: No data available
Vapour pressure	: 30.89 hPa (21.1 °C)
Vapour pressure at 50 °C	: 109 hPa
Relative vapour density at 20 °C	: 3.1
Relative density	: 0.87 (20 °C)
Relative density of saturated gas/air	: 1.6
Mixture Density	: 870 kg/m ³
Molecular mass	: 92.14 g/mol
Solubility	: Insoluble in water. Soluble in ethanol. Soluble in ether. Soluble in acetone. Soluble in chloroform. Soluble in carbondisulfide. Soluble in acetic acid. Soluble in ethylacetate. Soluble in petroleum spirit. Water: 0.057 - 0.059 g/100ml (25 °C) Ethanol: complete Ether: complete
Log Pow	: Acetone: > 10 g/100ml
Auto-ignition temperature	: 2.73 (Experimental value, 20 °C) : 480 °C (1013 hPa)
Decomposition temperature	: No data available
Viscosity, kinematic	: 0.69 mm ² /s (20 °C)
Viscosity, dynamic	: 0.6 mPa.s (20 °C)
Explosive limits	: 1.3 - 7 vol % 46 - 270 g/m ³ : Lower explosive limit (LEL): 1.3 vol % : Upper explosive limit (UEL): 7 vol %
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

Minimum ignition energy	: 0.3 mJ
Specific conductivity	: < 1 pS/m
Saturation concentration	: 110 g/m ³
VOC content	: 100 %
Other properties	: Gas/vapour heavier than air at 20°C. Volatile. Substance has neutral reaction. May generate electrostatic charges.

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SECTION 10: Stability and reactivity

10.1. Stability and Reactivity

- Stability : Stable under normal conditions of use and storage.
- Reactivity : Incompatible with strong oxidizers, silver perchlorate, sodium difluoride, Tetranitromethane, Uranium Hexafluoride. Frozen Bromine Trifluoride re-acts violently with Toluene at -80°C . Reacts chemically with nitrogen ox-ides, or halogens to form nitrotoluene, nitrobenzene, and nitrophenol and halogenated products, respectively.
- Polymerization : Will not occur
- Conditions to avoid : Avoid all possible sources of ignition (heat, flame, or spark). Light, moisture, and incompatibles.
- Materials to avoid : Avoid contact with strong oxidizing agents. Alkalines and caustics. Chemically active metals.
- Hazardous decomposition products : May produce carbon monoxide, carbon dioxide, hydrogen chloride and phosgene when heated to decomposition. By heating and fire, toxic vapors / gases may be formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

- Likely routes of entry : Inhalation:
: Skin contact:
: Eyes contact :
: Ingestion:

Toluene (108-88-3)	
LD50 oral rat	5580 mg/kg bodyweight (Equivalent or similar to EU Method B.1: Acute Toxicity (Oral), Rat, Male, Experimental value)
LD50 dermal rabbit	> 5000 mg/kg bodyweight (Other, 24 h, Rabbit, Male, Experimental value)
LC50 inhalation rat (mg/l)	25.7 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male, Experimental value)
ATE US (oral)	5580 mg/kg bodyweight

- 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
- 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 (central nervous system, liver, heart) through prolonged or repeated exposure.
- Aspiration hazard : May be fatal if swallowed and enters airways.
- Potential adverse human health effects and symptoms : May be fatal if swallowed and enters airways. Practically non-toxic if swallowed (LD50 oral, rat > 2000 mg/kg). Causes skin irritation. Non-toxic in contact with skin (LD50 skin > 5000 mg/kg).
- Symptoms / effects after inhalation : Excessive inhalation of vapors may cause headache and drowsiness (50 ppm), irritating (50-100 ppm), fatigue and dizziness, (100 ppm), Intoxication (over 200 ppm), in-coordination and confusion (over 500 ppm). Non-toxic by inhalation (LC50 inh, rat > 20 mg/l/4h).
- Symptoms / effects after skin contact : Caution! Substance is absorbed through the skin. Frequent or prolonged contact may be irritating and aggressively drying. Prolonged absorption may cause slight reaction. Toxic effects are not expected.
- Symptoms / effects after eye contact : Severely irritating, may damage eyes permanently.
- Symptoms/effects after ingestion : Headache, dizziness, drowsiness, intoxication. Central nervous system effects. Possible cardiac arrest. Risk of aspiration pneumonia. Nausea. Abdominal pain. Irritation of the gastric/intestinal mucosa. Symptoms similar to those listed under inhalation.
- Chronic symptoms : EXPOSURE TO HIGH CONCENTRATIONS: Headache. Nausea. Feeling of weakness, dizziness. Central nervous system depression. Narcosis. Mental confusion. Drunkenness. Coordination disorders. Disturbed motor response. Disturbances of consciousness. Tingling/irritation of the skin. Red skin. Irritation of the eye tissue.
: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry skin. Skin rash/inflammation Impairment of the nervous system. Tremor. Impaired memory. Impaired concentration. Brain affection. Disturbances of heart rate. Change in the haemogramme / blood composition.

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SECTION 12: Ecological information

12.1. Toxicity

- Ecology - general : Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.
- Ecology - air : Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
- Ecology - water : Toxic to crustacea. Toxic to fishes. Groundwater pollutant. Fouling to shoreline. Inhibits photosynthesis of algae. Harmful to bacteria. Taste alteration in fishes/aquatic organisms.

Toluene (108-88-3)

LC50 fish 1	5.5 mg/l (96 h, Oncorhynchus kisutch, Flow-through system, Fresh water, Experimental value)
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12.2. Persistence and degradability

Toluene (108-88-3)

Persistence and degradability : Biodegradable in the soil. Readily biodegradable in water.

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

12.3. Bioaccumulative potential

Toluene (108-88-3)

BCF fish 1 : 90 (72 h, Leuciscus idus, Static system, Fresh water, Experimental value)

Log Pow : 2.73 (Experimental value, 20 °C)

Bioaccumulative potential : Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

Toluene (108-88-3)

Surface tension : 27.73 N/m (25 °C)

Ecology - soil : Low potential for adsorption in soil.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste) : LWCA (the Netherlands): KGA category 03.

- Waste disposal recommendations :
- Do not discharge into drains or the environment. 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. Incinerate under surveillance with energy recovery. May be discharged to company wastewater treatment plant.
 - Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

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SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1294 Toluene, 3, II

UN-No.(DOT) : UN1294

Proper Shipping Name (DOT) : Toluene

Transport hazard class(es) (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Packing group (DOT) : II - Medium Danger

Hazard labels (DOT) : 3 - Flammable liquid



DOT Packaging Non Bulk (49 CFR 173.xxx) : 202

DOT Packaging Bulk (49 CFR 173.xxx) : 242

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 Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L

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.

Other information : No supplementary information available.

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	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA Section 311/312 Hazard Classes	Health hazard - Skin corrosion or Irritation Health hazard - Reproductive toxicity Physical hazard - Flammable (gases, aerosols, liquids, or solids) Health hazard - Specific target organ toxicity (single or repeated exposure) Health hazard - Aspiration hazard

- : All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory
- : Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Toluene	CAS-No. 108-88-3	100%
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15.2. International / National regulations

CANADA

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

EU-Regulations

No additional information available

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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	Yes
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No
No significant risk level (NSRL)	7000 µg/day

This product can expose you to Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

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H304	: May be fatal if swallowed and enters airways
H315	: Causes skin irritation
H336	: May cause drowsiness or dizziness
H361	: Suspected of causing cancer
H373	: May cause damage to organs through prolonged or repeated exposure
H402	: Harmful to aquatic life

NFPA health hazard



NFPA fire hazard

NFPA reactivity

Hazard Rating

Health

Flammability

Physical

Personal protection

- : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
- : 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.
- : 0 - Material that in themselves are normally stable, even under fire conditions
- : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
- : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
- : 2 Moderate Hazard - Materials that are unstable and may undergo violent chemical changes at normal temperature and pressure with low risk for explosion. Materials may react violently with water or form peroxides upon exposure to air.
- : H - Splash goggles, Gloves, Synthetic apron, Vapor respirator

SDS Canada (GHS)

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