

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

Issue date: 07/02/2020 Revision date: 07/02/2020 : Version: 1.0

SECTION 1: Identification

1.1. Product identifier

 Trade name
 : TOLUENE

 EC-No.
 : 203-625-9

 EC Index-No.
 : 601-021-00-3

 CAS-No.
 : 108-88-3

 UN-No. (ADR)
 : 1294

 Product code
 : 120080xxx

 Formula
 : C7H8

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

Recommended uses and restrictions : For laboratory use only

1.3. Supplier's details

Labchem (Pty)Ltd 6 Wakefield Road Founders Hill 1609 Johannesburg - South Africa T +27 11 452 1116 - F +27 86 588 0293 techlab@labchem.co.za - www.labchem.co.za

1.4. Emergency telephone number

Emergency number : +27 11 452 1116

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Flammable liquids, Category 2 H225

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

Skin corrosion/irritation, Category 2 H315 Specific target organ toxicity — Single H336

exposure, Category 3, Narcosis

Specific target organ toxicity — Repeated exposure, Category 2
Aspiration hazard, Category 1 H304

Hazardous to the aquatic environment — Acute Hazard, Category 2

Full text of H statements : see section 16

2.2. Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS-ZA)







GHS02

GHS07

GHS08

Signal word (GHS-ZA) : Danger

Hazard statements (GHS-ZA) : H225 - Highly flammable liquid and vapour.

H401

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

H373 - May cause damage to organs through prolonged or repeated exposure.

H401 - Toxic to aquatic life

Precautionary statements (GHS-ZA) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P233 - Keep container tightly closed.

P240 - Ground and bond container and receiving equipment.

P241 - Use explosion-proof equipment.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

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P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 - Call a POISON CENTER or doctor if you feel unwell.

P314 - Get medical advice/attention if you feel unwell.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P331 - Do NOT induce vomiting.

P332+P313 - If skin irritation occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use media other than water to extinguish.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Adverse physicochemical, human health and environmental effects

 Highly flammable liquid and vapour, May cause damage to organs through prolonged or repeated exposure, May cause drowsiness or dizziness, Causes skin irritation, May be fatal if swallowed and enters airways, Toxic to aquatic life

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance identification codes: See section 1.1

Name	Product identifier	%	Classification according to the United Nations GHS
toluene (Main constituent)	(CAS-No.) 108-88-3	≥ 95	Flam. Liq. 2, H225 Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) Skin Irrit. 2, H315 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

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. Call a physician immediately.

First-aid measures after inhalation

Remove person to fresh air and keep comfortable for breathing. 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 without medical advice. Remove clothing before washing. Take victim to a doctor if irritation persists. Take victim to a doctor/medical service if irritation persists. Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact

: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply (chemical) neutralizing agents without medical advice. Take victim to an ophthalmologist if irritation persists. Take victim to a doctor/medical service if irritation persists. Rinse eyes with water as a precaution.

First-aid measures after ingestion

: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Do not apply (chemical) neutralizing agents without medical advice. Call Poison Information Centre (www.big.be/antigif.html). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Take the container/vomit to the doctor/hospital. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects : May cause drowsiness or dizziness.

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Chronic symptoms

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Symptoms/effects after inhalation	: 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.	

Symptoms/effects after skin contact Tingling/irritation of the skin. Red skin. Irritation.

Symptoms/effects after eye contact Irritation of the eye tissue.

Symptoms/effects after ingestion Risk of aspiration pneumonia. Nausea. Abdominal pain. Irritation of the gastric/intestinal mucosa. Symptoms similar to those listed under inhalation. Risk of lung oedema.

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.

Potential adverse human health effects and symptoms

Non-toxic if swallowed (LD50 oral, rat > 5000 mg/kg). May be fatal if swallowed and enters airways. Causes skin irritation. Non-toxic in contact with skin (LD50 skin> 5000 mg/kg). May cause drowsiness or dizziness. Practically non-toxic by inhalation (LC50 inh, rat > 20 mg/l/4h). Not irritant to eyes. Moderately irritant for eyes. Caution! Substance is absorbed through the

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

: Quick-acting ABC powder extinguisher. Quick-acting BC powder extinguisher. Quick-acting Suitable extinguishing media

class B foam extinguisher. Quick-acting CO2 extinguisher. Class B foam (not alcohol-resistant). Water spray. Dry powder. Foam. Carbon dioxide.

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

expansion.

Special hazards arising from the substance or mixture

: DIRECT FIRE HAZARD: Highly flammable liquid and vapour. Gas/vapour flammable with air Fire hazard 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". Highly flammable liquid and vapour.

DIRECT EXPLOSION HAZARD: Gas/vapour explosive with air within explosion limits. **Explosion hazard**

INDIRECT EXPLOSION HAZARD: may be ignited by sparks. Reactions with explosion

hazards: see "Reactivity Hazard".

Hazardous decomposition products in case of

: Upon combustion: CO and CO2 are formed.

Advice for firefighters

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

Heat/fire exposure: compressed air apparatus (EN 136 + EN 137). Do not attempt to take Protection during firefighting

action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

No additional information available

6.1.1. For non-emergency personnel

Protective equipment : Gloves (EN 374). Protective goggles (EN 166). Head/neck protection. Protective clothing (EN

14605 or EN 13034). Large spills/in enclosed spaces: compressed air apparatus (EN 136 + EN

137). Large spills/in enclosed spaces: gas-tight suit (EN 943).

Ventilate spillage area. Keep upwind. Mark the danger area. Consider evacuation. Seal off low-**Emergency procedures** lying areas. Close doors and windows of adjacent premises. Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment. Keep

containers closed. Wash contaminated clothes. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Environmental precautions

Avoid release to the environment. Prevent soil and water pollution.

Methods and material for containment and cleaning up

: Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam For containment 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. Collect spillage.

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Methods for cleaning up

: Take up liquid spill into absorbent material. Liquid spill: cover with foam. Take up liquid spill into inert absorbent material, e.g.: sand, earth, vermiculite. Scoop absorbed substance into closing containers. 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. Notify authorities if product enters sewers or public waters.

Other information

: Dispose of materials or solid residues at an authorized site.

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. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact

with skin and eyes.

Hygiene measures

: Observe strict hygiene. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Ground/bond container and receiving equipment.

Storage conditions

: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

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.

Heat and ignition sources

: KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.

Information on mixed storage

: KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. halogens.

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)		
South Africa - Occupational Exposure Limits (Recommended Limits)		
Local name	Toluene	
OEL TWA (mg/m³)	188 mg/m³	
OEL TWA (ppm)	50 ppm	
OEL STEL (mg/m³)	560 mg/m³	
OEL STEL (ppm)	150 ppm	
Remark	Sk	
Regulatory reference	Government Notice. R: 1179	

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

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8.3. Individual protection measures, such as personal protective equipment (PPE)

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 : Protective gloves against chemicals (EN 374)

Eye protection : Protective goggles (EN 166)

Skin and body protection : Head/neck protection. Protective clothing (EN 14605 or EN 13034)

Respiratory protection : Full face mask with filter type A at conc. in air > exposure limit

Personal protective equipment symbol(s):









8.4. Exposure limit values for the other components

No additional information available

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 No data available No data available pΗ pH solution : No data available

Relative evaporation rate (butylacetate=1) : 2.24

Relative evaporation rate (ether=1) : No data available

Melting point : -95 °C (1013 hPa)

Freezing point : No data available

Boiling point : 110.6 °C (1013 hPa)

Flash point : 4.4 °C (Closed cup, 1013 hPa)

Critical temperature : 321 °C

Auto-ignition temperature : 480 °C (1013 hPa)

Decomposition temperature : No data available

Flammability (solid, gas) : Not applicable

Vapour pressure : 30.89 hPa (21 °C)

Vapour pressure at 50 °C : 109 hPa
Critical pressure : 41077 hPa

Relative vapour density at 20 °C : 3.1

Relative density : 0.87 (20 °C)

Relative density of saturated gas/air mixture : 1.6

Density : 870 kg/m³

Relative gas density : No data available

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 Acetone: > 10 g/100ml

Partition coefficient n-octanol/water (Log Pow) : 2.73 (Experimental value, 20 °C)

Partition coefficient n-octanol/water (Log Kow) : No data available
Viscosity, kinematic : 0.69 mm²/s (20 °C)
Viscosity, dynamic : 0.6 mPa·s (20 °C)
Explosive properties : No data available

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Oxidising properties : No data available Explosive limits : 1.3 - 7 vol % $46 - 270 \text{ g/m}^3$

Lower explosive limit (LEL) : 1.3 vol % Upper explosive limit (UEL) : 7 vol %

9.2. Other information

Minimum ignition energy : 0.3 mJ
Specific conductivity : <1 pS/m
Saturation concentration : 110 g/m³
VOC content : 100 %

Other properties : Gas/vapour heavier than air at 20°C. Clear. Volatile. Neutral reaction. May generate

electrostatic charges.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.

Acute toxicity (dermal) : Not classified.

Acute toxicity (inhalation) : Not classified

TOLUENE (108-88-3)	
LD50 oral rat 5580 mg/kg bodyweight (Equivalent or similar to EU Method B.1: Acute Toxicity (Oral), Ramale, Experimental value, Oral (one dose), 7 day(s))	
LD50 dermal rabbit	> 5000 mg/kg bodyweight (Other, 24 h, Rabbit, Male, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	25.7 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male, Experimental value, Inhalation (vapours))

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 : Not classified

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

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

skin.

TOLUENE (108-88-3)		
Viscosity, kinematic	0.69 mm²/s (20 °C)	
Potential adverse human health effects and symptoms	: Non-toxic if swallowed (LD50 oral, rat > 5000 mg/kg). May be fatal if swallowed and enters airways. Causes skin irritation. Non-toxic in contact with skin (LD50 skin> 5000 mg/kg). May cause drowsiness or dizziness. Practically non-toxic by inhalation (LC50 inh, rat > 20 mg/l/4h). Not irritant to eyes. Moderately irritant for eyes. Caution! Substance is absorbed through the	

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SECTION 12: Ecological information	

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Ecology - general : Not classified as dangerous for the environment according to the criteria of Regulation (EC) No

1272/2008. Toxic to aquatic life.

Not included in the list of substances which may contribute to the greenhouse effect (IPCC). 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).

: Toxic to crustacea. Toxic to fishes. Groundwater pollutant. Fouling to shoreline. Inhibits

photosynthesis of algae. Harmful to bacteria. Taste alteration in fishes/aquatic organisms.

Hazardous to the aquatic environment, short-

term (acute)

Ecology - water

: Toxic to aquatic life.

Hazardous to the aquatic environment, long-

term (chronic)

: Not classified

TOLUENE (108-88-3)	
LC50 fish 1	5.5 mg/l (96 h, Oncorhynchus kisutch, Flow-through system, Fresh water, Experimental value)
BCF fish 1 90 (72 h, Leuciscus idus, Static system, Fresh water, Experimental value)	
Partition coefficient n-octanol/water (Log Pow)	2.73 (Experimental value, 20 °C)

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 O ₂ /g substance	
Chemical oxygen demand (COD) 2.52 g O ₂ /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)
Partition coefficient n-octanol/water (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)		
Mobility in soil	No additional information available	
Surface tension	27.73 N/m (25 °C)	
Partition coefficient n-octanol/water (Log Pow)	2.73 (Experimental value, 20 °C)	
Ecology - soil	Low potential for adsorption in soil.	

Other adverse effects 12.5.

Ozone : Not classified

Other adverse effects : No additional information available

SECTION 13: Disposal considerations

Disposal methods

Waste treatment methods

Additional information

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging 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. Flammable vapours may accumulate in the container.

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA
14.1. UN number		
1294	1294	1294

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According to SANS 10234:2008 and SANS 11014:2010

SANS	IMDG	IATA
14.2. Proper Shipping Name		
TOLUENE	TOLUENE	Toluene
14.3. Transport hazard class(es)		
3	3	3
3	3	Not applicable
14.4. Packing group		
l II	II	II
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
	:	
No supplementary information available		

14.6. Special precautions for user

- SANS

Transport regulations (UN) : Subject to the provisions

Limited quantities (SANS) : 1 L
Limited quantities (SANS) : 1 L

Packagings, large packagings and IBCs : P001, IBC02

Packing instructions (SANS)

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Portable tank and bulk containers instructions

(SANS)

: T4

Portable tank and bulk container special

provisions (SANS)

: TP1

- IMDG

Transport regulations (IMDG) : Subject to the provisions

Limited quantities (IMDG) : 1 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T4

Tank special provisions (IMDG) : TP1

EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS

EmS-No. (Spillage) : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS

Stowage category (IMDG) : B Flash point (IMDG) : 7° C c.c.

Properties and observations (IMDG) : Colourless liquid with a benzene-like odour. Flashpoint: 7°C c.c. Explosive limits: 1.27% to 7%

Immiscible with water.

- IATA

Transport regulations (IATA) : Subject to the provisions

PCA Excepted quantities (IATA) : E2 PCA Limited quantities (IATA) : Y341 PCA limited quantity max net quantity (IATA) : 1L PCA packing instructions (IATA) : 353 PCA max net quantity (IATA) : 5L CAO packing instructions (IATA) : 364 CAO max net quantity (IATA) : 60L ERG code (IATA) : 3L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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SECTION 15: Regulatory information

Safety, health, and environmental national regulations specific for the product

: SANS 10234:2008; SANS 11014:2010; SANS 10228:2012; SANS 10229:2010; SANS Regulatory reference

10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National Road Traffic Act 93 of 1996.

SECTION 16: Other information

Issue date : 07/02/2020 Revision date : 07/02/2020

Full text of H-statements:

r toxt or ir otatomonto.	
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.
H373	May cause damage to organs through prolonged or repeated exposure.
H401	Toxic to aquatic life

SDS South Africa

The data provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge. The data relates to the specific product as named and is ntended as a guide to the safe handling of the product in all its facets. The data may no longer be valid if the product is used in any process or in combination with other products. This SDS is not a quality specification nor any form of guarantee.

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