

SECTION 1: Identification

1.1. Product identifier

Trade name : PHENOL
 EC-No. : 203-632-7
 EC Index-No. : 604-001-00-2
 CAS-No. : 108-95-2
 UN-No. (ADR) : 1671
 Product code : 116050xxx
 Formula : C₆H₆O

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

Acute toxicity (oral), Category 4 H302
 Acute toxicity (dermal), Category 3 H311
 Acute toxicity (inhal.), Category 3 H331
 Skin corrosion/irritation, Category 1B H314
 Germ cell mutagenicity, Category 2 H341
 Specific target organ toxicity — Repeated exposure, Category 2 H373
 Hazardous to the aquatic environment — Acute Hazard, Category 2 H401
 Full text of H statements : see section 16

2.2. Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS-ZA) :



Signal word (GHS-ZA) : Danger

Hazard statements (GHS-ZA) : H302 - Harmful if swallowed.
 H311+H331 - Toxic in contact with skin or if inhaled
 H314 - Causes severe skin burns and eye damage.
 H341 - Suspected of causing genetic defects.
 H373 - May cause damage to organs through prolonged or repeated exposure.
 H401 - Toxic to aquatic life

Precautionary statements (GHS-ZA) : P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 - Wash hands, forearms and face thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
 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+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
 P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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According to SANS 10234:2008 and SANS 11014:2010

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.
 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.
 P310 - Immediately call a POISON CENTER or doctor.
 P311 - Call a POISON CENTER or doctor.
 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).
 P330 - Rinse mouth.
 P361+P364 - Take off immediately all contaminated clothing and wash it before reuse.
 P363 - Wash contaminated clothing before reuse.
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
 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 : Suspected of causing genetic defects, May cause damage to organs through prolonged or repeated exposure, Toxic in contact with skin, Toxic if inhaled, Harmful if swallowed, Causes severe skin burns and eye damage, 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
phenol, solid (Main constituent)	(CAS-No.) 108-95-2	≥ 99.95	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Muta. 2, H341 STOT RE 2, H373 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. Do not apply mouth-to-mouth resuscitation. Immediately consult a doctor/medical service. Call a doctor.

First-aid measures after skin contact : Wash immediately with PE-glycol 400. Wash immediately with lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents without medical advice. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital. Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician immediately.

First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. 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. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

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. Immediately consult a doctor/medical service. Call Poison Information Centre (www.big.be/antigif.html). Ingestion of large quantities: immediately to hospital. Take the container/vomit to the doctor/hospital. Rinse mouth. Do not induce vomiting. Call a physician immediately.

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According to SANS 10234:2008 and SANS 11014:2010

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

Symptoms/effects after inhalation	: ON CONTINUOUS EXPOSURE/CONTACT: Dry/sore throat. Coughing. Respiratory difficulties. Rapid respiration. Dizziness. Disturbances of consciousness. FOLLOWING SYMPTOMS MAY APPEAR LATER: Possible laryngeal spasm/oedema. Risk of pneumonia. Risk of lung oedema.
Symptoms/effects after skin contact	: Caustic burns/corrosion of the skin. Destruction of tissue. Feeling of weakness. Tremor. Coordination disorders. Shock. Disturbances of consciousness. Cramps/uncontrolled muscular contractions. Burns.
Symptoms/effects after eye contact	: Corrosion of the eye tissue. Permanent eye damage. Serious damage to eyes.
Symptoms/effects after ingestion	: Burns to the gastric/intestinal mucosa. Nausea. Abdominal pain. Diarrhoea. Low arterial pressure. Shock. Disturbances of consciousness. Respiratory collapse. FOLLOWING SYMPTOMS MAY APPEAR LATER: Disturbed sensation of pain. Enlargement/affection of the liver. Decreased renal function. Change in urine output. Urine discolouration. Methemoglobinemia. Burns.
Chronic symptoms	: Skin rash/inflammation. May stain the skin. Feeling of weakness. Headache. Difficulty in swallowing. Gastrointestinal complaints. Loss of appetite. Urine discolouration. Increased salivation. Enlargement/affection of the liver. Central nervous system depression. Dizziness. Impaired concentration. Decreased renal function. Body temperature fall.
Potential adverse human health effects and symptoms	: Toxic if swallowed. Obstructs oxygen absorption if ingested. Toxic in contact with skin. Causes severe skin burns. Toxic if inhaled. Causes serious eye damage. Caution! Substance is absorbed through the skin.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. 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 (alcohol-resistant). Water spray if puddle cannot expand. Water spray. Dry powder. Foam.
Unsuitable extinguishing media	: Water (quick-acting extinguisher, reel); risk of puddle expansion. Water; risk of puddle expansion.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: DIRECT FIRE HAZARD: Material presenting a fire hazard. In finely divided state: increased fire hazard. INDIRECT FIRE HAZARD: Temperature above flashpoint: higher fire/explosion hazard. Reactions involving a fire hazard: see "Reactivity Hazard".
Explosion hazard	: DIRECT EXPLOSION HAZARD: Fine dust is explosive with air. INDIRECT EXPLOSION HAZARD: Dust cloud can be ignited by a spark. Reactions with explosion hazards: see "Reactivity Hazard".
Hazardous decomposition products in case of fire	: Upon combustion: CO and CO2 are formed.

5.3. Advice for firefighters

Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: seal off low-lying areas. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefighting instructions	: Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.1.1. For non-emergency personnel

Protective equipment	: Gloves. Face shield. Corrosion-proof suit. Dust cloud production: compressed air/oxygen apparatus.
Emergency procedures	: Ventilate spillage area. Mark the danger area. Prevent dust cloud formation. No naked flames. Corrosion-proof appliances. Wash contaminated clothes. In case of reactivity hazard: consider evacuation. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothing.

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".
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6.2. Environmental precautions

Avoid release to the environment. Prevent soil and water pollution. Prevent spreading in sewers.

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According to SANS 10234:2008 and SANS 11014:2010

6.3. Methods and material for containment and cleaning up

- For containment : Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the solid spill. Knock down/dilute dust cloud with water spray. Take account of toxic/corrosive precipitation water. Powdered form: no compressed air for pumping over spills. Collect spillage.
- Methods for cleaning up : Mechanically recover the product. Cover the solid spill with dry sand/earth/vermiculite soda ash or powdered limestone. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Powdered: do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. 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 : Avoid raising dust. Keep away from naked flames/heat. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep the substance free from contamination. Use corrosionproof equipment. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Powdered form: no compressed air for pumping over. Keep container tightly closed. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Use only outdoors or in a well-ventilated area.
- 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.
- Additional hazards when processed : Pulverization rapidly increases toxic concentration.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
- Storage area : Store in a dry area. Store in a dark area. Ventilation at floor level. Keep locked up. Unauthorized persons are not admitted. Under a shelter/in the open. May be stored under nitrogen. Meet the legal requirements.
- Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.
- Information on mixed storage : KEEP SUBSTANCE AWAY FROM: many substances. oxidizing agents. (strong) acids. (strong) bases. metals. halogens. water/moisture.
- Special rules on packaging : SPECIAL REQUIREMENTS: hermetical. watertight. dry. clean. opaque. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
- Packaging materials : SUITABLE MATERIAL: steel. stainless steel. nickel. polypropylene. glass. MATERIAL TO AVOID: lead. aluminium. iron. copper. zinc. bronze. tin.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

PHENOL (108-95-2)	
South Africa - Occupational Exposure Limits (Recommended Limits)	
Local name	Phenol
OEL TWA (mg/m ³)	19 mg/m ³
OEL TWA (ppm)	5 ppm
OEL STEL (mg/m ³)	38 mg/m ³
OEL STEL (ppm)	10 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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According to SANS 10234:2008 and SANS 11014:2010

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

Materials for protective clothing	: GIVE EXCELLENT RESISTANCE: viton. GIVE GOOD RESISTANCE: butyl rubber. tetrafluoroethylene. GIVE POOR RESISTANCE: natural rubber. nitrile rubber. polyethylene. PVA. PVC. neoprene/natural rubber. nitrile rubber/PVC
Hand protection	: Protective gloves against chemicals (EN 374)
Eye protection	: Face shield. In case of dust production: protective goggles
Skin and body protection	: Corrosion-proof clothing. In case of dust production: head/neck protection
Respiratory protection	: Dust production: dust mask with filter type P3. High dust production: self-contained breathing apparatus

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	: Solid
Appearance	: Crystalline solid. Needles.
Molecular mass	: 94.11 g/mol
Colour	: Pure substance: colourless to white. On exposure to air: rose to brown.
Odour	: Irritating/pungent odour. Sweet odour. Aromatic odour.
Odour threshold	: No data available
pH	: 6
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: < 0.03
Relative evaporation rate (ether=1)	: No data available
Melting point	: 40.9 °C (1013 hPa)
Freezing point	: Not applicable
Boiling point	: 181.9 °C (1013 hPa)
Flash point	: 81 °C (Closed cup, 1013 hPa)
Critical temperature	: 421 °C
Auto-ignition temperature	: 715 °C (1013 hPa)
Decomposition temperature	: 800 °C
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: 0.2 hPa (20 °C)
Vapour pressure at 50 °C	: No data available
Critical pressure	: 61286 hPa
Relative vapour density at 20 °C	: Not applicable
Relative density	: 1.07 (20 °C)
Relative density of saturated gas/air mixture	: 1
Density	: 1070 kg/m ³
Relative gas density	: No data available
Solubility	: Moderately soluble in water. Soluble in ethanol. Soluble in methanol. Soluble in ether. Soluble in acetone. Soluble in chloroform. Soluble in tetrachloromethane. Soluble in acetic acid. Soluble in carbondisulfide. Soluble in sodium hydroxide solution. Soluble in glycerol. Soluble in acids. Soluble in halogenated hydrocarbons. Soluble in dimethyl sulfoxide. Soluble in dimethylformamide. Soluble in oils/fats. Water: 8.4 g/100ml (20 °C) Ethanol: > 10 g/100ml Acetone: complete
Partition coefficient n-octanol/water (Log Pow)	: 1.47 (Experimental value, Equivalent or similar to OECD 117, 30 °C)
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: 3.178 mm ² /s
Viscosity, dynamic	: 3.4 mPa·s (50 °C)

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According to SANS 10234:2008 and SANS 11014:2010

Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 1.3 – 9.5 vol % 50 – 370 g/m ³
Lower explosive limit (LEL)	: 1.3 vol %
Upper explosive limit (UEL)	: 9.5 vol %

9.2. Other information

Minimum ignition energy	: 0.25 mJ
Specific conductivity	: > 1 µS/m
Saturation concentration	: 0.77 g/m ³
VOC content	: 100 %
Other properties	: Hygroscopic. Acid reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity

Decomposes slowly on exposure to air. Reacts violently with (strong) oxidizers: (increased) risk of fire/explosion. Violent to explosive reaction with many compounds e.g.: with (some) acids/bases. Reacts on exposure to temperature rise with (some) metals.

10.2. Chemical stability

Hygroscopic. Discolours on exposure to light. Discolours on exposure to air.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

At very high temperature: decomposes: release of highly flammable gases/vapours (hydrogen).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Toxic in contact with skin.
Acute toxicity (inhalation)	: Toxic if inhaled.

PHENOL (108-95-2)	
LD50 oral rat	650 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rat	660 mg/kg (Equivalent or similar to OECD 402, 24 h, Rat, Female, Experimental value, Dermal, 7 day(s))
LC50 inhalation rat (mg/l)	> 0.9 mg/l (Equivalent or similar to OECD 403, 8 h, Rat, Female, Experimental value, Inhalation (aerosol), 14 day(s))

Skin corrosion/irritation	: Causes severe skin burns. pH: 6
Serious eye damage/irritation	: Assumed to cause serious eye damage pH: 6
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified

PHENOL (108-95-2)	
Viscosity, kinematic	3.178 mm ² /s

Potential adverse human health effects and symptoms	: Toxic if swallowed. Obstructs oxygen absorption if ingested. Toxic in contact with skin. Causes severe skin burns. Toxic if inhaled. Causes serious eye damage. Caution! Substance is absorbed through the skin.
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According to SANS 10234:2008 and SANS 11014:2010

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. Toxic to aquatic life.
Ecology - air	: Not included in the list of substances which may contribute to the greenhouse effect (IPCC). Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Photolysis in the air. Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology - water	: Toxic to crustacea. Harmful to crustacea with long lasting effects. Toxic to fishes. Groundwater pollutant. Inhibition of activated sludge. Nitrification of activated sludge is inhibited. Harmful to algae. Very toxic to plankton.
Hazardous to the aquatic environment, short-term (acute)	: Toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

PHENOL (108-95-2)

LC50 fish 1	8.9 mg/l (US EPA, 96 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value)
EC50 Daphnia 1	3.1 mg/l (US EPA, 48 h, Ceriodaphnia dubia, Static system, Fresh water, Experimental value, Locomotor effect)
BCF fish 1	17.5 (OECD 305: Bioconcentration: Flow-Through Fish Test, 3 h, Danio rerio, Flow-through system, Fresh water, Experimental value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	1.47 (Experimental value, Equivalent or similar to OECD 117, 30 °C)
Partition coefficient n-octanol/water (Log Koc)	1.58 – 1.86 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Calculated value)

12.2. Persistence and degradability

PHENOL (108-95-2)

Persistence and degradability	Biodegradable in the soil. Inhibits biodegradation processes in the soil. Readily biodegradable in water. Readily biodegradable in water in anaerobic conditions.
Biochemical oxygen demand (BOD)	1.68 g O ₂ /g substance
Chemical oxygen demand (COD)	2.28 g O ₂ /g substance
ThOD	2.38 g O ₂ /g substance
BOD (% of ThOD)	0.71 (Calculated value)

12.3. Bioaccumulative potential

PHENOL (108-95-2)

BCF fish 1	17.5 (OECD 305: Bioconcentration: Flow-Through Fish Test, 3 h, Danio rerio, Flow-through system, Fresh water, Experimental value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	1.47 (Experimental value, Equivalent or similar to OECD 117, 30 °C)
Partition coefficient n-octanol/water (Log Koc)	1.58 – 1.86 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Calculated value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

PHENOL (108-95-2)

Mobility in soil	No additional information available
Surface tension	71.3 mN/m (20 °C, 0.118 %)
Partition coefficient n-octanol/water (Log Pow)	1.47 (Experimental value, Equivalent or similar to OECD 117, 30 °C)
Partition coefficient n-octanol/water (Log Koc)	1.58 – 1.86 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Calculated value)
Ecology - soil	Highly mobile in soil.

12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
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According to SANS 10234:2008 and SANS 11014:2010

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. Remove to an authorized waste incinerator for solvents with energy recovery. Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

Additional information : Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA
14.1. UN number		
1671	1671	1671
14.2. Proper Shipping Name		
PHENOL, SOLID	PHENOL, SOLID	Phenol, solid
14.3. Transport hazard class(es)		
6.1	6.1	6.1
		 Not applicable
14.4. Packing group		
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
Special provisions (SANS) : 279
Limited quantities (SANS) : 500 g
Limited quantities (SANS) : 500 g
Packagings, large packagings and IBCs : P002, IBC08
Packing instructions (SANS)
Packagings, large packagings and IBCs Special : B2, B4
packing instructions (SANS)
Portable tank and bulk containers instructions : T3
(SANS)
Portable tank and bulk container special : TP33
provisions (SANS)

- IMDG

Transport regulations (IMDG) : Subject to the provisions
Special provisions (IMDG) : 279
Limited quantities (IMDG) : 500 g
Excepted quantities (IMDG) : E4
Packing instructions (IMDG) : P002
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B21, B4
Tank instructions (IMDG) : T3
Tank special provisions (IMDG) : TP33
EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage) : S-A - SPILLAGE SCHEDULE Alfa - TOXIC SUBSTANCES
Stowage category (IMDG) : A

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According to SANS 10234:2008 and SANS 11014:2010

Properties and observations (IMDG) : Colourless or white crystals or crystallized mass. Melting point: 43°C (pure product). Soluble in water. Toxic if swallowed, by skin contact or by vapour inhalation. Rapidly absorbed through the skin.

- IATA

Transport regulations (IATA) : Subject to the provisions
PCA Excepted quantities (IATA) : E4
PCA Limited quantities (IATA) : Y644
PCA limited quantity max net quantity (IATA) : 1kg
PCA packing instructions (IATA) : 669
PCA max net quantity (IATA) : 25kg
CAO packing instructions (IATA) : 676
CAO max net quantity (IATA) : 100kg
Special provisions (IATA) : A113
ERG code (IATA) : 6L

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

Not applicable

SECTION 15: Regulatory information

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

Regulatory reference : SANS 10234:2008; SANS 11014:2010; SANS 10228:2012;SANS 10229:2010; SANS 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 : 17/02/2020

Revision date : 17/02/2025

Full text of H-statements:

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H331	Toxic if inhaled.
H341	Suspected of causing genetic defects.
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 intended 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.