



SASOL

Safety Data Sheet

Phenol (Crystals)

Version 1.00

Revision Date 29.08.2018

SECTION 1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name Phenol (Crystals)

Synonyms Carboxylic acid, phenyl alcohol, mono hydroxyl benzene.

CAS-No. 108-95-2

EINECS-No. 203-632-7

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

Use Industrial use. Solvent. Binding agents

Manufacturer or supplier's details

Company Sasol Chemicals, a division of Sasol South Africa (Pty) Ltd

Address Sasol Place, 50 Katherine Street
Sandton
2090
South Africa

Telephone +27103445000

E-mail address sasolchem.info.sa@sasol.com

Emergency telephone number +44 (0)1235 239 670 (Europe, Israel, Africa, Americas)

+44(0)1235 239 671 (Middle East, Arabic African countries)

+65 3158 1074 (Asia Pacific)

+86 10 5100 3039 (China)



SASOL

Safety Data Sheet

Phenol (Crystals)

Version 1.00

Revision Date 29.08.2018

+27 (0)17 610 4444 (South Africa)

+61 (2) 8014 4558 (Australia)

SECTION 2. Hazards identification

Classification of the substance or mixture

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Classification

| | |
|--|------------|
| Flammable Liquids | Category 4 |
| Acute oral toxicity | Category 4 |
| Acute dermal toxicity | Category 3 |
| Skin corrosion/irritation | Category 1 |
| Serious eye damage/eye irritation | Category 1 |
| Specific target organ toxicity - repeated exposure | Category 1 |

Label elements

Pictogram



Signal word

Danger

Hazard statements

H227: Combustible liquid.
H302: Harmful if swallowed.
H311: Toxic in contact with skin.



SASOL

Safety Data Sheet

Phenol (Crystals)

Version 1.00

Revision Date 29.08.2018

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H372: Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P242: Use non-sparking tools.

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.

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

P264: Wash hands thoroughly after handling.

Response

P370 + P378: In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

P341: If breathing is difficult, 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.

P304 + P312: IF INHALED: Call a POISON CENTER/ doctor if you feel unwell.

P362 + P364: Take off contaminated clothing and wash it before reuse.

P301 + P330 + P331 + P310: IF SWALLOWED: Rinse mouth. Do NOT



SASOL

Safety Data Sheet

Phenol (Crystals)

Version 1.00

Revision Date 29.08.2018

induce vomiting. Immediately call a POISON CENTER/ doctor.
P302 + P350: IF ON SKIN: Gently wash with plenty of soap and water.

Storage P403: Store in a well-ventilated place.

P405: Store locked up.

Disposal P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

Other hazards No data available

SECTION 3. Composition/information on ingredients

Substance

Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol

Contents: 100.00 %W/W

CAS-No. 108-95-2

Index-No. 604-001-00-2

EC-No. 203-632-7

Hazard statements H227 H302 H311 H314 H318 H372

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. First aid measures

Description of necessary first-aid measures

Inhalation Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

Skin contact Rapid skin decontamination is critical. Take off contaminated



SASOL

Safety Data Sheet

Phenol (Crystals)

Version 1.00

Revision Date 29.08.2018

clothing and shoes immediately. Wash off immediately with plenty of water. Apply PEG/EtOH solution liberally to affected area. Allow to remain 15 to 30 seconds, then wash with water. Continue cycle of water and PEG/EtOH solution for at least 15 minutes. (PEG/EtOH solution consists of 2 parts polyethylene glycol 400 to 1 part ethanol. For external use only.) Wash off with soap and water. Wash contaminated clothing before reuse. Call a physician immediately.

Eye contact

Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately. Danger of very serious irreversible effects

Ingestion

If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Refer to SECTION 11

SECTION 5. Firefighting measures

Suitable extinguishing media Water spray, Foam, CO₂, Dry powder.

Special hazards arising from the substance or mixture Emits toxic fumes under fire conditions



SASOL

Safety Data Sheet

Phenol (Crystals)

Version 1.00

Revision Date 29.08.2018

Special protective equipment for firefighters Wear self-contained breathing apparatus and protective suit.

SECTION 6. Accidental release measures

Personal precautions Avoid dust formation. Wear respiratory protection. Protective suit Ensure adequate ventilation. Do not breathe dust or decomposition vapours.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Prevent the formation of dust.

Reference to other sections Refer to section 8 and 13

SECTION 7. Handling and storage

Safe handling advice Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Wear personal protective equipment. Ensure adequate ventilation. Do not breathe dust or decomposition vapours.

Advice on protection against fire and explosion No data available

Requirements for storage areas and containers Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from sources of ignition - No smoking.

Advice on common storage No data available



SASOL

Safety Data Sheet

Phenol (Crystals)

Version 1.00

Revision Date 29.08.2018

SECTION 8. Exposure controls/personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

| Components | Type | Control parameters | Update | Basis |
|------------|------|--------------------|---------|-------------|
| PHENOL | | 19 mg/m3 | 06 2014 | Taiwan OELs |
| PHENOL | | 5 ppm | 06 2014 | Taiwan OELs |
| PHENOL | | | | |

Exposure controls

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Effective exhaust ventilation system

Safety shower and eye bath

Personal protective equipment

Respiratory protection Self-contained breathing apparatus (EN 133)

Hand protection Gloves suitable for permanent contact:

Material: butyl-rubber

Break through time: 4 h

Material thickness: 0.5 mm

Eye protection Safety glasses with side-shields

Skin and body protection Protective suit Safety shoes

Hygiene measures Wash hands before breaks and immediately after handling the



SASOL

Safety Data Sheet

Phenol (Crystals)

Version 1.00

Revision Date 29.08.2018

product.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

| | |
|---|------------------------------|
| Form | crystalline, granular, Solid |
| State of matter | Solid |
| Colour | Colourless - pale yellow |
| Odour | Phenol-like |
| Odour Threshold | No data available |
| pH | 6 |
| Melting point/range | 40.6 ° C; 101.3 kPa |
| Boiling point/boiling range | 182 ° C; 101.3 kPa |
| Flash point | 79 ° C; closed cup |
| Flash point | 85 ° C; open cup |
| Evaporation rate | No data available |
| Flammability (solid, gas) | No data available |
| Auto-ignition temperature | 595 ° C |
| Relative vapour density | 3.24 |
| Density | 1.07 g/cm3; 20 ° C |
| Partition coefficient: n-octanol/water | log Pow: 1.5 |



SASOL

Safety Data Sheet

Phenol (Crystals)

Version 1.00

Revision Date 29.08.2018

Viscosity, kinematic 3.437 mm²/s; 50 ° C

SECTION 10. Stability and reactivity

Reactivity Stable under normal conditions.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None known.

Conditions to avoid Avoid moisture. Heat, flames and sparks.

Materials to avoid Air

Hazardous decomposition products Carbon dioxide (CO₂)Carbon monoxide

SECTION 11. Toxicological information

Acute oral toxicity Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: LD50 Rat: 340 - 540 mg/kg; (literature value)

Acute inhalation toxicity Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: LC50 Rat: 4 h; vapour; 316 mg/l; (literature value)

Acute dermal toxicity Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: LD50 Rabbit: 850 mg/kg; (literature value)

Skin irritation Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: Causes burns.; (literature value)

Eye irritation Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: Causes burns. (literature value)



SASOL

Safety Data Sheet

Phenol (Crystals)

Version 1.00

Revision Date 29.08.2018

SECTION 12. Ecological information

| | |
|--|--|
| Toxicity to fish | Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: semi-static test; <i>Poecilia reticulata</i> ; 14 d; LC50; 21.93 mg/l; (literature value) |
| Toxicity to daphnia and other aquatic invertebrates | Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: static test; <i>Ceriodaphnia dubia</i> (water flea); 48 h; EC50; 3.1 mg/l(literature value) |
| Toxicity to algae | Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: <i>Pseudokirchneriella subcapitata</i> (green algae)96 h; EC50; 61.1 mg/l; |
| Toxicity to bacteria | Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: <i>Nitrosomonas</i> sp.; IC50; 21 mg/l |
| Bioaccumulation | Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: Does not bioaccumulate. |
| Mobility in soil | Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: Not expected to adsorb on soil. |
| Results of PBT and vPvB assessment | Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB). |
| Other adverse effects | Phenol, carbolic acid; monohydroxybenzene; phenyl alcohol: |



SASOL

Safety Data Sheet

Phenol (Crystals)

Version 1.00

Revision Date 29.08.2018

No data available

SECTION 13. Disposal considerations

Product Dispose of as special waste in compliance with local and national regulations.

SECTION 14. Transport information

IMDG

UN number: 1671

Class: 6.1

EmS: F-A; MFAG: S-A

Packaging group: II; Marine pollutant

Proper shipping name: PHENOL, SOLID

ICAO/IATA

UN number : 1671

Class: 6.1

Packaging group: II

Proper shipping name: PHENOL, SOLID

Transport in bulk according Phenol

Pollution Category: Y



SASOL

Safety Data Sheet

Phenol (Crystals)

Version 1.00

Revision Date 29.08.2018

to Annex II of MARPOL Ship Type: 2

~~73/78 and the IBC Code~~

SECTION 15. Regulatory information

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

| | |
|---|---|
| Inv. of Exist. Chem. Substances in China | All chemical constituents are listed in: Inv. of Exist. Chem. Substances in China (See chapter 3) |
| USA TSCA Inventory | All chemical constituents are listed in: USA TSCA Inventory (See chapter 3) |
| Canadian Domestic Substances List (DSL) | All chemical constituents are listed in: Canadian Domestic Substances List (DSL) (See chapter 3) |
| Australian Inv. of Chem. Substances (AICS) | All chemical constituents are listed in: Australian Inv. of Chem. Substances (AICS) (See chapter 3) |
| New Zealand Inventory of Chemicals (NZIoC) | All chemical constituents are listed in: New Zealand Inventory of Chemicals (NZIoC) (See chapter 3) |
| Jap. Inv. of Exist. & New Chemicals (ENCS) | All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals (ENCS) (See chapter 3) |
| Japan. Industrial Safety & Health Law (ISHL) | All chemical constituents are listed in: Japan. Industrial Safety & Health Law (ISHL) (See chapter 3) |
| Korea. Existing Chemicals Inventory (KECI) | All chemical constituents are listed in: Korea. Existing Chemicals Inventory (KECI) (See chapter 3) |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS) | All chemical constituents are listed in: Philippines Inventory of Chemicals and Chemical Substances (PICCS) (See chapter 3) |



SASOL

Safety Data Sheet

Phenol (Crystals)

Version 1.00

Revision Date 29.08.2018

**China Inv. Existing Chemical Substances
(IECSC)**

All chemical constituents are listed in: China Inv. Existing Chemical Substances (IECSC) (See chapter 3)

SECTION 16. Other information

Full text of H-Statements

- H227 Combustible liquid.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H372 Causes damage to organs through prolonged or repeated exposure.

All reasonable efforts were exercised to compile this SDS in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The SDS only provides information regarding the health, safety and environmental hazards at the date of issue, to facilitate the safe receipt, use and handling of this product in the workplace and does not replace any product information or product specifications. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which this product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which this product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place with respect to health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of this product.

Although all reasonable efforts were exercised in the compilation of this SDS, Sasol does not expressly warrant the accuracy of, or assume any liability for incomplete information contained herein or any advice given. When this product is sold, risk passes to the purchaser in accordance with the specific terms and conditions of sale.