

PHENOL CRYSTALS

SECTION 1: PRODUCT IDENTIFICATION

Product Name: PHENOL CRYSTAL
Product Code: TMB 058
CAS#: 108-95-2
Synonym: Hydroxybenzene
Chemical Name: Not available.
Chemical Formula: C₆H₆O
Formula Weight: 94.11

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:

Name: Phenol crystals

Toxicological Data on Ingredients: Acute Tox. 3; Skin Corr. 1B; Eye Dam. 1; Muta. 2; STOT RE 2; Aquatic Chronic 2; H301, H331, H311, H314, H318, H341, H373, H411

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Potential Acute Health Effects:

Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 3), H331
Acute toxicity, Dermal (Category 3), H311

Potential Chronic Health Effects:

Long-term (chronic) aquatic hazard (Category 2), H411

Carcinogenic Effects: Not available.

Mutagenic Effects:

Germ cell mutagenicity (Category 2), H341

Teratogenic Effects: Not available.

Developmental Toxicity: Not available.

Specific target organ toxicity - repeated exposure (Category 2), Nervous system, Kidney, Liver, Skin, H373

SECTION 4: FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact: Wash off immediately with soap and plenty of water. Cover the irritated skin with emollient. Immediate medical attention is required.

Serious Skin Contact: Not available.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not Available.

Ingestion: Do Not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.



SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Water Foam Carbon dioxide (CO₂) Dry powder

Special hazards arising from the substance or mixture

Carbon oxides

Nitrogen oxides (NO_x)

Oxides of phosphorus

Sodium oxides

Combustible.

Development of hazardous combustion gases or vapours possible in the event of fire.

Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Work under hood. Do not inhale substance/mixture.

Storage conditions:

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class:

Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Respiratory protection

Respiratory protection is not required. If protection from nuisance levels of dusts are desired, use type N95 or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance : Solid



Odor	:	stinging
Color	:	Not available
Molecular Weight	:	Not available
pH	:	Not available
Boiling Point	:	Not available
Melting Point	:	Melting point/range: > 300 °C
Critical Temperature	:	Not available
Specific Gravity	:	Not available
Vapor Pressure	:	Not available
Vapor Density	:	Not available
Volatility	:	Not available
Odor Threshold	:	Not available
Water/Oil Dist. Coeff.	:	Not available
Ionicity (in Water)	:	Not available
Dispersion Properties	:	Not available
Solubility	:	Not available

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: The product is chemically stable under standard ambient conditions (room temperature).

Instability Temperature: Not available

Conditions of Instability: Strong heating.

Incompatibility with various substances: rubber, various plastics, various alloys, various metals

Special Remarks on Corrosivity: Non-corrosive.

Special Remarks on Reactivity: Not available

Possibility of hazardous reactions: Exothermic reaction with: Aluminum, Aldehydes, halogens hydrogen peroxide iron(III) compounds

Hazardous decomposition products: In event of fire.

SECTION 11: TOXICOLOGICAL INFORMATION.

Acute Toxicity:

Acute toxicity estimate Oral - 100,1 mg/kg

Acute toxicity estimate Inhalation - 0,51 mg/l

Acute toxicity estimate Inhalation - 0,51 mg/l

LD50 Dermal - Rat - female - 660 mg/kg

Inhalation: Not available

Dermal: Not available

Routes of Entry: Not available

Toxicity to Animals: Not available

Chronic Effects on Humans: Not available

Other Toxic Effects on Humans: May cause damage to organs through prolonged or repeated exposure. - Nervous system,, Liver, Skin

Special Remarks on Toxicity to Animals: Not available

Special Remarks on other Toxic Effects on Humans: Suspected of causing genetic defects.

Reproductive toxicity: Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Toxicity to fish flow-through test LC50 - Onchorhynchus clarki - 8,9 mg/l - 96 h

Toxicity to daphnia static test EC50 - Ceriodaphnia dubia (water flea) - 3,1 mg/l - 48 h



and other aquatic
invertebrates

Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata (algae) - 61,1 mg/l - 96 h

Toxicity to bacteria static test IC50 - microorganisms - 21 mg/l - 24 h

BOD and COD: Not available

Products of Biodegradation:

Biodegradability aerobic - Exposure time 100 h

Result: 62 % - Readily biodegradable

Toxicity of the Products of Biodegradation: Not available

Special Remarks on the Products of Biodegradation: Not Available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

UN number:

ADR/RID: 1671

IMDG: 1671

IATA: 1671

UN proper shipping name

ADR/RID: Phenol solid

IMDG: Phenol solid

IATA: Phenol solid

Transport hazard class (es):

ADR/RID: 6.1

IMDG: 6.1

IATA: 6.1

Packaging group:

ADR/RID: II

IMDG: II

IATA: II

Environmental hazards:

ADR/RID: Yes

IMDG Marine pollutant: Yes

IATA: no

SECTION 15: REGULATORY INFORMATION

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: OTHER INFORMATION

References: Full text of H AND R-Statements:

H301 Toxic if swallowed.

H301 + H311 +

H331

Toxic if swallowed, in contact with skin or if inhaled.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H341 Suspected of causing genetic defects.



H373 May cause damage to organs (/*_2ORGAN_REPEAT*/) through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Other Special Considerations: Not available

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