

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200)



spectrum®

Revision date 15-May-2025

Revision Number 4

1. Identification

Product identifier

Product Name PHENOL, LOOSE CRYSTAL, REAGENT, ACS

Other means of identification

Product Code(s) P1060

UN number or ID number UN1671

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use No information available

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Address

Spectrum Chemical Mfg. Corp.
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

2. Hazard(s) identification

Classification

| | |
|--|------------|
| Acute toxicity - Oral | Category 4 |
| Acute toxicity - Dermal | Category 3 |
| Acute toxicity - Inhalation (Gases) | Category 3 |
| Acute toxicity - Inhalation (Vapors) | Category 1 |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 1 |
| Skin corrosion/irritation | Category 1 |
| Germ cell mutagenicity | Category 2 |
| Specific target organ toxicity (repeated exposure) | Category 2 |

Hazards not otherwise classified (HNOC)

Not applicable.

Label elements

Danger

Hazard statements

Fatal if inhaled.
Causes severe skin burns and eye damage.
Toxic in contact with skin.
Harmful if swallowed.
Suspected of causing genetic defects.
May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements - Prevention

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/clothing and eye/face protection.
Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wear respiratory protection.

Precautionary Statements - Response

Specific treatment (see .? on this label).
Specific treatment is urgent (see .? on this label).
Immediately call a POISON CENTER or doctor.
Specific treatment (see .? on this label).
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor.
Call a POISON CENTER or doctor if you feel unwell.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Immediately call a POISON CENTER or doctor.
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
Rinse mouth.
Do NOT induce vomiting.

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

Unknown acute toxicity**Other information**

No information available.

3. Composition/information on ingredients

Substance

| Chemical name | CAS No. | Weight-% |
|---------------|----------|----------|
| Phenol | 108-95-2 | 100 |

4. First-aid measures**Description of first aid measures**

| | |
|---|---|
| General advice | Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. |
| Inhalation | If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical attention. |
| Eye contact | Get immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Skin contact | Get immediate medical attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. |
| Ingestion | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention. |
| Self-protection of the first aider | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. |

Most important symptoms and effects, both acute and delayed

| | |
|----------------------------|--|
| Symptoms | Coughing and/ or wheezing. Difficulty in breathing. Burning sensation. |
| Effects of Exposure | No information available. |

Indication of any immediate medical attention and special treatment needed

| | |
|---------------------------|--|
| Note to physicians | Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. |
|---------------------------|--|

5. Fire-fighting measures

| | |
|---|--|
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | Do not scatter spilled material with high pressure water streams. |
| Specific hazards arising from the chemical | The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. |

Hazardous combustion products Carbon Monoxide, Carbon Dioxide.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid generation of dust. Do not breathe dust. Keep people away from and upwind of spill/leak. Attention! Corrosive material.

Other information Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Precautions for safe handling

Technical Measures/Precautions: Use only in area provided with appropriate exhaust ventilation Keep away from open flames, hot surfaces and sources of ignition Keep away from incompatible materials

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse. Do not breathe dust. Avoid generation of dust. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not breathe dust. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up. Store away from other materials. Protect from moisture. Light Sensitive: Keep tightly closed in light-resistant containers. Air sensitive.

Incompatible Materials: Oxidizing agents Metals Acids Bases isocyanates nitrides Acetaldehyde amides Formaldehyde

aliphatic amines

8. Exposure controls/personal protection

Control parameters

Exposure Limits

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH |
|--------------------|-----------|---------------------------------------|-------|
| Phenol 108-95-2 | - | 5 ppm TWA 19 mg/m ³ TWA | - |

Appropriate engineering controls

Engineering controls Showers
 Eyewash stations
 Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles. Face protection shield.

Hand protection Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid
Appearance Crystals
Color Colorless; to; White; or; light pink
Odor No information available
Odor threshold No information available

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|---|-------------------|-------------------------|
| pH | No data available | None known |
| pH (as aqueous solution) | | None known |
| Melting point / freezing point | 41 °C / 105.8 °F | None known |
| Initial boiling point and boiling range | 182 °C / 359.6 °F | None known |
| Flash point | 79 °C / 174.2 °F | None known |
| Evaporation rate | no data available | None known |
| Flammability | no data available | None known |
| Flammability Limit in Air | | None known |
| Upper flammability or explosive limits | No data available | |
| Lower flammability or explosive limits | No data available | |
| Vapor pressure | No data available | None known |
| Relative vapor density | No data available | None known |
| Relative density | 1.07 | None known |
| Water solubility | Soluble in water | None known |

| | | |
|----------------------------------|---|------------|
| Solubility(ies) | Very soluble in Acetone Very soluble in chloroform Very soluble in alcohol Very soluble in Dimethyl Sulfoxide Soluble in Carbon Disulfide Soluble in alkaline solutions. | None known |
| Partition coefficient | No data available | None known |
| Autoignition temperature | No data available | None known |
| Decomposition temperature | | None known |
| Kinematic viscosity | no data available | None known |
| Dynamic viscosity | No data available | None known |
| <u>Other information</u> | | |
| Explosive properties | No information available | |
| Oxidizing properties | No information available | |
| Softening point | No information available | |
| Molecular weight | No information available | |
| VOC content | No information available | |
| Liquid Density | No information available | |
| Bulk density | No information available | |

10. Stability and reactivity

| | |
|---|---|
| Reactivity | No information available. |
| Chemical stability | Stable under normal conditions. |
| Possibility of hazardous reactions | None under normal processing. |
| Conditions to avoid | Excessive heat. Exposure to air or moisture over prolonged periods. |
| Incompatible materials | Acids. Bases. Oxidizing agent. |
| Hazardous decomposition products | Spontaneous polymerisation. |

11. Toxicological information

Information on likely routes of exposure

Product Information

| | |
|---------------------|---|
| Inhalation | Specific test data for the substance or mixture is not available. Fatal if inhaled. (based on components). Corrosive by inhalation. Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. |
| Eye contact | Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes. |
| Skin contact | Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns. Toxic in contact with skin. |
| Ingestion | Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung |

damage if swallowed. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Coughing and/ or wheezing. Difficulty in breathing. Redness. Burning. May cause blindness.

Acute toxicity No information available.

Numerical measures of toxicity No information available

Unknown acute toxicity

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--------------------|---------------------|------------------------|-------------------------------------|
| Phenol 108-95-2 | = 340 mg/kg (Rat) | = 630 mg/kg (Rabbit) | = 316 mg/m ³ (Rat) 4 h |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes burns.

Serious eye damage/eye irritation Classification based on data available for ingredients. Risk of serious damage to eyes. Causes burns.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity Contains a known or suspected mutagen. Classification based on data available for ingredients. Suspected of causing genetic defects.

Carcinogenicity No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|--------------------|-------|---|-----|------|
| Phenol 108-95-2 | - | Group 3 - Not classifiable - Monograph 71 [1999] Monograph 47 [1989] | - | - |

Legend

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity No information available.

STOT - single exposure No information available.

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

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects No information available.

12. Ecological information

Ecotoxicity

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|--------------------|---|--|----------------------------|---|
| Phenol 108-95-2 | EC50: 0.0188 - 0.1044mg/L (96h, Pseudokirchneriella subcapitata) EC50: 187 - 279mg/L (72h, Desmodesmus subspicatus) EC50: =46.42mg/L (96h, Pseudokirchneriella subcapitata) | LC50: 11.9 - 25.3mg/L (96h, Lepomis macrochirus) LC50: 11.9 - 50.5mg/L (96h, Pimephales promelas) LC50: 20.5 - 25.6mg/L (96h, Pimephales promelas) LC50: 23.4 - 36.6mg/L (96h, Oryzias latipes) LC50: 33.9 - 43.3mg/L (96h, Oryzias latipes) LC50: 34.09 - 47.64mg/L (96h, Poecilia reticulata) LC50: 4.23 - 7.49mg/L (96h, Oncorhynchus mykiss) LC50: 5.0 - 12.0mg/L (96h, Oncorhynchus mykiss) LC50: 5.449 - 6.789mg/L (96h, Oncorhynchus mykiss) LC50: 7.5 - 14mg/L (96h, Oncorhynchus mykiss) LC50: =0.00175mg/L (96h, Cyprinus carpio) LC50: =11.5mg/L (96h, Lepomis macrochirus) LC50: =13.5mg/L (96h, Lepomis macrochirus) LC50: =27.8mg/L (96h, Brachydanio rerio) LC50: =31mg/L (96h, Poecilia reticulata) LC50: =32mg/L (96h, Pimephales promelas) | - | EC50: 10.2 - 15.5mg/L (48h, Daphnia magna) EC50: 4.24 - 10.7mg/L (48h, Daphnia magna) |

Persistence and degradability No information available.

Bioaccumulation There is no data for this product.

Component Information

| Chemical name | Partition coefficient |
|--------------------|-----------------------|
| Phenol 108-95-2 | 1.5 |

Other adverse effects No information available.

13. Disposal considerations**Disposal methods**

| | |
|--|---|
| Waste from residues/unused products | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| Contaminated packaging | Do not reuse empty containers. |

14. Transport information**DOT**

| | |
|--|--------------------------------|
| UN number or ID number | UN1671 |
| Proper shipping name | Phenol, solid |
| Transport hazard class(es) | 6.1 |
| Special Provisions | II |
| Special Provisions | IB8, IP2, IP4, N78, T3, TP33 |
| DOT Marine Pollutant | NP |
| Description | UN1671, Phenol, solid, 6.1, II |
| Emergency Response Guide Number | 153 |

TDG

| | |
|-----------------------------------|--------------------------------|
| UN/ID no. | UN1671 |
| Proper shipping name | Phenol, solid |
| Transport hazard class(es) | 6.1 |
| Packing Group | II |
| Special Provisions | 43 |
| Description | UN1671, Phenol, solid, 6.1, II |

MEX

| | |
|-----------------------------------|--------------------------------|
| UN-No | UN1671 |
| Proper Shipping Name | Phenol, solid |
| Transport hazard class(es) | 6.1 |
| Packing Group | II |
| Description | UN1671, Phenol, solid, 6.1, II |
| Special Provisions | 279 |

ICAO (air)

| | |
|-----------------------------------|--------------------------------|
| UN/ID no. | UN1671 |
| Proper shipping name | Phenol, solid |
| Transport hazard class(es) | 6.1 |
| Packing Group | II |
| Description | UN1671, Phenol, solid, 6.1, II |
| Special Provisions | A113 |

IATA

| | |
|-----------------------------------|--------------------------------|
| UN number or ID number | UN1671 |
| Proper shipping name | Phenol, solid |
| Transport hazard class(es) | 6.1 |
| Packing group | II |
| Description | UN1671, Phenol, solid, 6.1, II |
| Special Provisions | A113 |
| ERG Code | 6L |

IMDG

| | |
|-----------------------------------|---------------|
| UN number or ID number | UN1671 |
| Proper shipping name | Phenol, solid |
| Transport hazard class(es) | 6.1 |

| | |
|---------------------------|--------------------------------|
| Packing group | II |
| EmS-No. | F-A, S-A |
| Special Provisions | 279 |
| Marine pollutant | NP |
| Description | UN1671, Phenol, solid, 6.1, II |

ADR

| | |
|-----------------------------------|---------------------------------------|
| UN number or ID number | UN1671 |
| Proper shipping name | Phenol, solid |
| Transport hazard class(es) | 6.1 |
| Packing group | II |
| Special Provisions | 279 |
| Description | UN1671, Phenol, solid, 6.1, II, (D/E) |

RID

| | |
|-----------------------------------|--------------------------------|
| UN number or ID number | UN1671 |
| Proper shipping name | Phenol, solid |
| Transport hazard class(es) | 6.1 |
| Packing group | II |
| Special Provisions | 279 |
| Description | UN1671, Phenol, solid, 6.1, II |

15. Regulatory information

International Inventories

| | |
|----------------------|---|
| TSCA | Complies |
| DSL/NDSL | Complies |
| EINECS/ELINCS | Complies |
| ENCS | This product complies with ENCS: |
| IECSC | This product complies with China: |
| KECL | Complies |
| PICCS | Complies |
| AIIC | All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS). |
| NZIoC | Does not comply |
| TCSI | Does not comply |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

TCSI - Taiwan Chemical Substance Inventory

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CAA (Clean Air Act)

This product does not contain any substances regulated as pollutants pursuant to Clean Air Act (CAA).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

| Chemical name | Hazardous Substances RQs | Extremely Hazardous Substances RQs |
|--------------------|-------------------------------------|------------------------------------|
| Phenol 108-95-2 | 1000 lb final RQ 454 kg final RQ | |

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

International Inventories

| Chemical name | CAS No. | U.S. TSCA | KOREA KECL | Philippines (PICCS) | Japan ENCS | IECSC | AIIC | EINECS-No. |
|---------------|----------|-------------------|---------------------|---------------------|-----------------|---------|---------|----------------------|
| | 108-95-2 | Present ACTIVE | Present KE-28209 | Present | Present (3)-481 | Present | Present | Present 203-632-7 |

U.S. Regulations

| Chemical name | Massachusetts | M.A. EHS: | New Jersey | New Jersey - Environmental Hazardous Su | N.J.- Discharge Prevention: | New Jersey TCPA - EHS: | Pennsylvania | P.A. RTK - Environmental Hazard | P.A. RTK - Special Hazardous |
|---------------|---------------|-----------|------------|---|-----------------------------|------------------------|----------------------|---------------------------------|------------------------------|
| Phenol | Present | | 1487 | | Present | | Environmental hazard | Present | |

| Chemical name | Michigan - Critical Materials: | Michigan PSM HHC: | Minnesota - Hazardous Substance: | N.Y. Release - Hazardous Substances: | C.T. - Carcinogenic: |
|---------------|--------------------------------|-------------------|----------------------------------|--------------------------------------|----------------------|
| Phenol | | | Present | 1000 lb RQ 1 lb RQ | |

| Chemical name | Louisiana Reportable Quantity List for Pollutants: | California Directors List of Hazardous Substances: | FDA - Food Additives Generally Recognized as Safe (GRAS): | FDA - Direct Food Additives | FDA - 21 CFR - Total Food Additives - List Sourced from EAFUS |
|---------------|--|--|---|-----------------------------|---|
| Phenol | 1000lbfinal RQ 454kgfinal RQ | Present | | | 175.105, 175.300, 175.380, 175.390, 176.170, 177.1210, 177.1580, 177.2410, 177.2600 |

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

| Chemical name | CAS No. | Carcinogen | Developmental Toxicity | Male Reproductive Toxicity | Female Reproductive Toxicity: |
|---------------|----------|------------|------------------------|----------------------------|-------------------------------|
| | 108-95-2 | Not Listed | Not Listed | Not Listed | Not Listed |

CERCLA/SARA

CERCLA

TSCA

| Chemical name | CAS No. | Hazardous Substances RQs | TPQ | Section 302 Extremely Hazardous Substances and RQs | Section 313 - Chemical Category |
|---------------|----------|-------------------------------------|--|--|---------------------------------|
| | 108-95-2 | 1000 lb final RQ 454 kg final RQ | 500 lb lower TPQ 10000 lb upper TPQ 1000 lb EPCRA RQ | None | None |

U.S. TSCA

| Chemical name | CAS No. | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) -Health and Safety Reporting |
|---------------|----------|---|--|
| | 108-95-2 | Not Applicable | 06/01/1987 06/01/1997 |

Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component
Phenol
108-95-2 (100)

WHMIS 2015 Hazard Classification
Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.;
Acute toxicity - Dermal - Category 3: H311 Toxic in contact with skin.; Acute toxicity - Inhalation - Category 1: H330 Fatal if inhaled.; Health Hazard Not Otherwise Classified - Category 1: Causes severe damage to the respiratory tract; Skin corrosion/irritation - Category 1: H314 Causes severe skin burns and eye damage.; Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage.; Specific target organ toxicity - Single exposure - Category 1: H370 Causes damage to organs.; Specific target organ toxicity - Repeated exposure - Category 2: H373 May cause damage to organs through prolonged or repeated exposure.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL Complies

| Chemical name | CAS No. | Canada (DSL) | Canada (NDSL) |
|---------------|----------|--------------|---------------|
| | 108-95-2 | Present | Not Listed |

| Chemical name | CAS No. | CEPA Schedule I - Toxic Substances |
|---------------|----------|------------------------------------|
| | 108-95-2 | Not listed |

| Chemical name | CAS No. | CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting |
|---------------|----------|---|
| | 108-95-2 | Not listed |

| Chemical name | CAS No. | EU GHS - SV - CLP (1272/2008) |
|---------------|----------|---|
| | 108-95-2 | <p>Acute toxicity - Oral - Acute Tox. 3: H301 Toxic if swallowed. (Minimum classification); Acute toxicity - Dermal - Acute Tox. 3: H311 Toxic in contact with skin. (Minimum classification); Acute toxicity - Inhalation - Acute Tox. 3: H331 Toxic if inhaled. (Minimum classification); Skin corrosion/irritation - Skin Corr. 1B: H314 Causes severe skin burns and eye damage.; Germ cell mutagenicity - Muta. 2: H341 Suspected of causing genetic defects.; Specific target organ toxicity - Repeated exposure - STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Minimum classification; No information to prove exclusion of certain routes of exposure)604-001-00-2</p> <p>Skin corrosion/irritation - Skin Corr. 1B: H314 Causes severe skin burns and eye damage. (C >= 3 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given; The classification for acute toxicity for this entry may be of special concern); Skin corrosion/irritation - Skin Irrit. 2: H315 Causes skin irritation. (1 % <= C <3 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given; The classification for acute toxicity for this entry may be of special concern); Serious Eye Damage/Eye Irritation - Eye Irrit. 2: H319 Causes serious eye irritation. (1 % <= C <3 %; Concentration limits for acute toxicity cannot be translated into GHS from the DSD especially when minimum classifications are given; The classification for acute toxicity for this entry may be of special concern)</p> |

R-Phrases

R68 - Possible risk of irreversible effects

R34 - Causes burns

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

R48/20/21/22 - Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed

S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

| Chemical name | CAS No. | Classification according to Directive 67/548/EEC or 1999/45/EC | Concentration Limits: | Safety Phrases |
|---------------|----------|--|--|----------------|
| Phenol | 108-95-2 | T; R23/24/25 C; R34 Xn; R48/20/21/22 Muta.Cat.3; R68 | 10%≤C T; R23/24/25 3%≤C<10% Xn; R20/21/22 3%≤C C; R34 1%≤C<3% Xi; R36/38 | |

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Contains Phenol

Indication of danger:

T - Toxic

16. Other information

| | | | | |
|-----------------------------------|----------------------------------|-----------------------|---------------------------|------------------------------|
| NFPA | Health hazards 4 | Flammability 2 | Instability 0 | Special hazards - |
| HMIS | Health hazards 4 * | Flammability 2 | Physical hazards 0 | Personal protection X |
| <i>Chronic Hazard Star Legend</i> | <i>* = Chronic Health Hazard</i> | | | |

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

- SVHC: Substances of Very High Concern for Authorization:
- PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
- vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances
- STOT: Specific Target Organ Toxicity
- ATE: Acute Toxicity Estimate
- LC50: 50% Lethal Concentration
- LD50: 50% Lethal Dose

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | | |
|---------|-----------------------------|------|----------------------------------|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | Sk* | Skin designation |
| + | Sensitizers | | |

Key literature references and sources for data used to compile the SDS

- Agency for Toxic Substances and Disease Registry (ATSDR)
- U.S. Environmental Protection Agency ChemView Database
- European Food Safety Authority (EFSA)
- Environmental Protection Agency
- Acute Exposure Guideline Level(s) (AEGl(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

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End of Safety Data Sheet