

# Part of Thermo Fisher Scientific

# SAFETY DATA SHEET

Creation Date 03-Dec-2010

Revision Date 22-Jul-2016

**Revision Number** 2

| 1. Identification  |   |  |
|--|---|--|
| Product Name   | Phenol  |  |
| Cat No. :  | A92-100, A92-212, A92-500   |  |
| Synonyms   | Carbolic acid; Hydroxybenzene   |  |
| Recommended Use  | Laboratory chemicals.   |  |
| Uses advised against<br>Details of the supplier of the s                       |   |  |
| <b>Company</b><br>Fisher Scientific<br>One Reagent Lane<br>Fair Lawn, NJ 07410 | Emergency Telephone Number<br>CHEMTREC®, Inside the USA: 800-424-9300<br>CHEMTREC®, Outside the USA: 001-703-527-3887 |  |

2. Hazard(s) identification

#### Classification

Tel: (201) 796-7100

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| Flammable liquids  | Category 4   |
|--|--------------|
| Acute oral toxicity  | Category 3   |
| Acute dermal toxicity                                      | Category 3   |
| Acute Inhalation Toxicity - Dusts and Mists                | Category 3   |
| Acute Inhalation Toxicity - Vapors                         | Category 3   |
| Skin Corrosion/irritation                                  | Category 1 B |
| Serious Eye Damage/Eye Irritation                          | Category 1   |
| Germ Cell Mutagenicity                                     | Category 2   |
| Specific target organ toxicity (single exposure)           | Category 3   |
| Target Organs - Respiratory system, Central nervous system | (CNS).       |
| Specific target organ toxicity - (repeated exposure)       | Category 1   |
| Target Organs - Liver, Kidney, Blood.                      |              |
|  |              |

#### Label Elements

Signal Word

Danger

#### **Hazard Statements**

Combustible liquid Toxic if swallowed Toxic in contact with skin Causes severe skin burns and eye damage May cause respiratory irritation Toxic if inhaled May cause drowsiness or dizziness Suspected of causing genetic defects Causes 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 Use personal protective equipment as required 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 Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep cool Response Immediately call a POISON CENTER or doctor/physician Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin Wash contaminated clothing before reuse IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower **Eves** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion Rinse mouth Do NOT induce vomiting Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage Store locked up Store in a well-ventilated place. Keep container tightly closed Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) Toxic to aquatic life with long lasting effects

# 3. Composition / information on ingredients

| Component    |  | CAS-No             | Weight %                             |  |  |
|--------------|--|--------------------|--------------------------------------|--|--|
|              | Phenol   | 108-95-2           | >95                                  |  |  |
|              |  |                    |                                      |  |  |
|              | 4.   | First-aid measures |                                      |  |  |
| Eye Contact  | Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.<br>Immediate medical attention is required. |                    | ne eyelids, for at least 15 minutes. |  |  |
| Skin Contact | tact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical  |                    | t 15 minutes. Immediate medical      |  |  |

|                                 | attention is required.   |
|---------------------------------|--|
| Inhalation                      | Move to fresh air. If breathing is difficult, give oxygen. 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. Immediate medical attention is required.  |
| Ingestion                       | Do not induce vomiting. Call a physician or Poison Control Center immediately.   |
| Most important symptoms/effects | Breathing difficulties. Causes burns by all exposure routes Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: May cause central nervous system depression |
| Notes to Physician              | Treat symptomatically  |
|                                 |  |

|  | 5. Fire-fighting measures   |
|--|---|
| Suitable Extinguishing Media                 | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray. |
| Unsuitable Extinguishing Media               | No information available  |
| Flash Point<br>Method -                      | 79 °C / 174.2 °F<br>No information available  |
| Autoignition Temperature<br>Explosion Limits | 605 °C / 1121 °F  |
| Upper  | 8.6 vol %   |
| Lower  | 1.7 vol %   |
| Sensitivity to Mechanical Impac              | t No information available  |
| Sensitivity to Static Discharge              | No information available  |

**Specific Hazards Arising from the Chemical** Combustible material. Risk of ignition. Containers may explode when heated.

#### **Hazardous Combustion Products**

Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>)

**Protective Equipment and Precautions for Firefighters** 

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

| <u>NFPA</u>   | Health<br>4   | Flammability<br>2              | Instability<br>1             | Physical hazards<br>N/A        |
|---|---|--------------------------------|------------------------------|--------------------------------|
|   |   | 6. Accidental rel              | ease measures                |                                |
| Personal Precautions Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid dust formation. Take precautionary measures against static discharges. |   | •                              |                              |                                |
| Environn  | vironmental Precautions Do not flush into surface water or sanitary sewer system. See Section 12 for addition ecological information. Avoid release to the environment. Collect spillage. |                                |                              |                                |
| Methods for Containment and Clean Remove all sources of ignition. Soak up with inert<br>Up into suitable containers for disposal. Avoid dust for<br>explosion-proof equipment.  |   | disposal. Avoid dust formation |                              |                                |
|   |   | 7. Handling a                  | and storage                  |                                |
| Handling  |   | Use only under a chemical      | fume hood. Wear personal pro | otective equipment. Avoid dust |

formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Keep away from open flames, hot surfaces and sources of ignition.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Protect from moisture. Protect from light. Corrosives area.

#### 8. Exposure controls / personal protection

#### Exposure Guidelines

**Hygiene Measures** 

| Component | ACGIH TLV  | OSHA PEL                            | NIOSH IDLH                    |
|-----------|------------|-------------------------------------|-------------------------------|
| Phenol    | TWA: 5 ppm | (Vacated) TWA: 5 ppm                | IDLH: 250 ppm                 |
|           | Skin       | (Vacated) TWA: 19 mg/m <sup>3</sup> | TWA: 5 ppm                    |
|           |            | Skin                                | TWA: 19 mg/m <sup>3</sup>     |
|           |            | TWA: 5 ppm                          | Ceiling: 15.6 ppm             |
|           |            | TWA: 19 mg/m <sup>3</sup>           | Ceiling: 60 mg/m <sup>3</sup> |

| Component | Quebec                              | Mexico OEL (TWA)  | Ontario TWAEV      |
|-----------|-------------------------------------|---|--------------------|
| Phenol    | TWA: 5 ppm<br>TWA: 19 mg/m³<br>Skin | TWA: 5 ppm<br>TWA: 19 mg/m <sup>3</sup><br>STEL: 10 ppm<br>STEL: 38 mg/m <sup>3</sup> | TWA: 5 ppm<br>Skin |

Legend

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

| Engineering Measures          | Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. |  |
|-------------------------------|--|--|
| Personal Protective Equipment |  |  |
| Eye/face Protection           | Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.            |  |
| Skin and body protection      | Wear appropriate protective gloves and clothing to prevent skin exposure.  |  |
| <b>Respiratory Protection</b> | Effective dust mask Filter type A.   |  |
|                               |  |  |

#### 9. Physical and chemical properties

Handle in accordance with good industrial hygiene and safety practice.

| Physical State                   | solid (crystal)               |
|----------------------------------|-------------------------------|
| Appearance                       | Colorless - Translucent White |
| Odor                             | pungent                       |
| Odor Threshold                   | No information available      |
| pH                               | 6 @ 20°C 10 g/L aq.sol        |
| Melting Point/Range              | 39 - 42 °C / 102.2 - 107.6 °F |
| Boiling Point/Range              | 182 °C / 359.6 °F @ 760 mmHg  |
| Flash Point                      | 79 °C / 174.2 °F              |
| Evaporation Rate                 | Not applicable                |
| Flammability (solid,gas)         | No information available      |
| Flammability or explosive limits |                               |
| Upper                            | 8.6 vol %                     |
| Lower                            | 1.7 vol %                     |
| Vapor Pressure                   | 0.4 mbar @ 20 °C              |
| Vapor Density                    | Not applicable                |
| Specific Gravity                 | 1.070                         |

| Solubility                             |
|--|
| Partition coefficient; n-octanol/water |
| Autoignition Temperature               |
| Decomposition Temperature              |
| Viscosity                              |
| Molecular Formula                      |
| Molecular Weight                       |

Soluble in water No data available 605 °C / 1121 °F No information available 3.437 mPa.s (50°C) C6 H6 O 94.11

| 10. Stability | y and reactivity |
|---------------|------------------|
|---------------|------------------|

| Reactive Hazard                | Yes   |
|--------------------------------|---|
| Stability                      | Hygroscopic, Light sensitive.   |
| Conditions to Avoid            | Avoid dust formation. Incompatible products. Exposure to moisture. Exposure to light. Keep away from open flames, hot surfaces and sources of ignition. |
| Incompatible Materials         | Acids, Bases, Strong oxidizing agents, Halogens, lead, Metals   |
| Hazardous Decomposition Produc | ts Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )  |
| Hazardous Polymerization       | Hazardous polymerization does not occur.  |
| Hazardous Reactions            | None under normal processing.   |

## 11. Toxicological information

#### Acute Toxicity

#### Product Information

| Component | Information |
|-----------|-------------|
|           |             |

| Componen   | t                            | LD50 Oral   |  | LD50 Dermal            | LC50 I             | LC50 Inhalation      |  |  |
|--|------------------------------|---|--|------------------------|--------------------|----------------------|--|--|
| Phenol   |                              |   | ıman Calc. AT  | E 300 mg/kg (Human     | Calc. ATE 0.       | .5 mg/l (Human       |  |  |
|  |                              | evidence)   |  | evidence)              |                    | dence)               |  |  |
|  |                              | LD50 = 340 mg/kg (Ra  |  | LD50 = 660 mg/kg (Rat) |                    | mg/m³/8h (Rat)       |  |  |
|  |                              | 650 mg/kg (Rat; OECD  |  | 1400 mg/kg (Rabbit)    |                    |                      |  |  |
| Toxicologically Syne   | ergistic                     | No information ava  | ilable   |                        |                    |                      |  |  |
| Products   |                              |   |  |                        |                    |                      |  |  |
| Delayed and immed  | iate effects a               | as well as chronic effe   | cts from short an  | d long-term exposu     | re                 |                      |  |  |
|  |                              |   |  |                        |                    |                      |  |  |
| Irritation   |                              | Causes burns by a   | II exposure routes   |                        |                    |                      |  |  |
|  |                              |   |  |                        |                    |                      |  |  |
| Sensitization  |                              | No information ava  | ilable   |                        |                    |                      |  |  |
|  |                              |   |  |                        |                    |                      |  |  |
|  | Carcinogenicity              |   | The table below indicates whether each agency has listed any ingredient as a carcinogen.       |                        |                    |                      |  |  |
| Carcinogenicity  |                              | The table below inc   | dicates whether ea   | ach agency has listed  | any ingredient a   | as a carcinogen.     |  |  |
| Carcinogenicity  |                              | The table below inc   | dicates whether ea   | ach agency has listed  | any ingredient a   | as a carcinogen.     |  |  |
| Carcinogenicity<br>Component   | CAS-No                       |   | dicates whether ea   | ACGIH                  | OSHA               | Mexico               |  |  |
|  | <b>CAS-No</b><br>108-95-2    | IARC  |  |                        |                    | -                    |  |  |
| Component  |                              | IARC  | NTP<br>Not listed  | ACGIH                  | OSHA               | Mexico               |  |  |
| Component<br>Phenol  |                              | 2 Not listed  | NTP<br>Not listed  | ACGIH                  | OSHA               | Mexico               |  |  |
| Component<br>Phenol<br>Mutagenic Effects   | 108-95-2                     | 2 Not listed<br>No information ava  | NTP<br>Not listed<br>iilable   | ACGIH                  | OSHA<br>Not listed | Mexico<br>Not listed |  |  |
| Component<br>Phenol  | 108-95-2                     | 2 Not listed<br>No information ava  | NTP<br>Not listed<br>iilable   | ACGIH<br>Not listed    | OSHA<br>Not listed | Mexico<br>Not listed |  |  |
| Component<br>Phenol<br>Mutagenic Effects<br>Reproductive Effect  | 108-95-2<br>s                | 2 Not listed<br>No information ava  | Not listed<br>Not listed<br>iilable<br>shown reproductiv                                       | ACGIH<br>Not listed    | OSHA<br>Not listed | Mexico<br>Not listed |  |  |
| Component<br>Phenol<br>Mutagenic Effects   | 108-95-2<br>s                | Not listed<br>No information ava<br>Experiments have  | Not listed<br>Not listed<br>iilable<br>shown reproductiv                                       | ACGIH<br>Not listed    | OSHA<br>Not listed | Mexico<br>Not listed |  |  |
| Component<br>Phenol<br>Mutagenic Effects<br>Reproductive Effect<br>Developmental Effect  | 108-95-2<br>s                | Not listed<br>No information ava<br>Experiments have  | Not listed<br>ilable<br>shown reproductiv<br>ilable.   | ACGIH<br>Not listed    | OSHA<br>Not listed | Mexico<br>Not listed |  |  |
| Component<br>Phenol<br>Mutagenic Effects<br>Reproductive Effect  | 108-95-2<br>s                | No information ava  | Not listed<br>ilable<br>shown reproductiv<br>ilable.   | ACGIH<br>Not listed    | OSHA<br>Not listed | Mexico<br>Not listed |  |  |
| Component<br>Phenol<br>Mutagenic Effects<br>Reproductive Effect<br>Developmental Effect<br>Teratogenicity                        | 108-95-2<br>s<br>cts         | IARC   Not listed   No information ava   Experiments have   No information ava   No information ava   | Not listed<br>Not listed<br>ilable<br>shown reproductiv<br>ilable.                             | ACGIH<br>Not listed    | OSHA<br>Not listed | Mexico<br>Not listed |  |  |
| Component<br>Phenol<br>Mutagenic Effects<br>Reproductive Effect<br>Developmental Effect<br>Teratogenicity<br>STOT - single expos | 108-95-2<br>s<br>cts<br>sure | IARC   Not listed   No information ava   Experiments have   No information ava   No information ava   No information ava   Respiratory system | NTP<br>Not listed<br>iilable<br>shown reproductiv<br>iilable.<br>iilable.<br>n Central nervous | ACGIH<br>Not listed    | OSHA<br>Not listed | Mexico<br>Not listed |  |  |
| Component<br>Phenol<br>Mutagenic Effects<br>Reproductive Effect<br>Developmental Effect  | 108-95-2<br>s<br>cts<br>sure | IARC   Not listed   No information ava   Experiments have   No information ava   No information ava   | NTP<br>Not listed<br>iilable<br>shown reproductiv<br>iilable.<br>iilable.<br>n Central nervous | ACGIH<br>Not listed    | OSHA<br>Not listed | Mexico<br>Not listed |  |  |
| Component<br>Phenol<br>Mutagenic Effects<br>Reproductive Effect<br>Developmental Effec<br>Teratogenicity<br>STOT - single expos  | 108-95-2<br>s<br>cts<br>sure | IARC   Not listed   No information ava   Experiments have   No information ava   No information ava   No information ava   Respiratory system | NTP<br>Not listed<br>iilable<br>shown reproductiv<br>iilable.<br>iilable.<br>n Central nervous | ACGIH<br>Not listed    | OSHA<br>Not listed | Mexico<br>Not listed |  |  |

| Symptoms / effects,both acute and<br>delayed<br>Endocrine Disruptor Information | Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting:<br>Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.<br>Possible perforation of stomach or esophagus should be investigated: Ingestion causes<br>severe swelling, severe damage to the delicate tissue and danger of perforation: May cause<br>central nervous system depression<br>No information available |
|---|--|
| Other Adverse Effects   | Tumorigenic effects have been reported in experimental animals. See actual entry in RTECS for complete information.  |

### 12. Ecological information

#### Ecotoxicity

The product contains following substances which are hazardous for the environment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Contains a substance which is:. Very toxic to aquatic organisms.

| Component | Freshwater Algae   | Freshwater Fish                         | Microtox                | Water Flea  |
|-----------|--|---|-------------------------|---|
| Phenol    | EC50: 187 - 279 mg/L, 72h<br>static (Desmodesmus<br>subspicatus)<br>EC50: 0.0188 - 0.1044<br>mg/L, 96h static<br>(Pseudokirchneriella<br>subcapitata)<br>EC50: = 46.42 mg/L, 96h<br>(Pseudokirchneriella<br>subcapitata) | 4-7 mg/L LC50 96 h<br>32 mg/L LC50 96 h | EC50 = 23.28 mg/L 5 min | EC50: 10.2 - 15.5 mg/L, 48l<br>(Daphnia magna)<br>EC50: 4.24 - 10.7 mg/L, 48l<br>Static (Daphnia magna) |

Persistence and Degradability Bioaccumulation/ Accumulation Soluble in water Persistence is unlikely based on information available.

#### Mobility

DOT

TDG

Will likely be mobile in the environment due to its water solubility.

| Component | log Pow |
|-----------|---------|
| Phenol    | 1.47    |

#### 13. Disposal considerations

Waste Disposal Methods

# Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

| Component         | RCRA - U Series Wastes | RCRA - P Series Wastes |
|-------------------|------------------------|------------------------|
| Phenol - 108-95-2 | U188                   | -                      |

|                      | 14. Transport information |
|----------------------|---------------------------|
| DT_                  |                           |
| UN-No                | UN1671                    |
| Proper Shipping Name | PHENOL, SOLID             |
| Hazard Class         | 6.1                       |
| Packing Group        | II                        |
| <u>IG</u>            |                           |
| UN-No                | UN1671                    |
| Proper Shipping Name | PHENOL, SOLID             |
| Hazard Class         | 6.1                       |
| Packing Group        | 11                        |

| Facking Group        | 11            |
|----------------------|---------------|
| IATA                 |               |
| UN-No                | UN1671        |
| Proper Shipping Name | PHENOL, SOLID |
| Hazard Class         | 6.1           |
| Packing Group        | II            |
| IMDG/IMO             |               |

| UN-No                | UN1671        |
|----------------------|---------------|
| Proper Shipping Name | PHENOL, SOLID |
| Hazard Class         | 6.1           |
| Packing Group        | II            |
|                      | 15 Regulat    |

### 15. Regulatory information

All of the components in the product are on the following Inventory lists: Australia Complete Regulatory Information contained in following SDS's X = listed China Canada The product is classified and labeled according to EC directives or corresponding national laws The product is classified and labeled in accordance with Directive 1999/45/EC TSCA Korea Philippines Japan U.S.A. (TSCA) Canada (DSL/NDSL) Europe (EINECS/ELINCS/NLP) Australia (AICS) Korea (ECL) China (IECSC) Japan (ENCS) Philippines (PICCS)

#### International Inventories

| Component | TSCA | DSL | NDSL | EINECS    | ELINCS | NLP | PICCS | ENCS | AICS | IECSC | KECL |
|-----------|------|-----|------|-----------|--------|-----|-------|------|------|-------|------|
| Phenol    | Х    | Х   | -    | 203-632-7 | -      |     | Х     | Х    | Х    | Х     | Х    |

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### U.S. Federal Regulations

| TSCA 12(b) | Not applicable |
|------------|----------------|
|            | NUL applicable |

**SARA 313** 

| Component | CAS-No   | Weight % | SARA 313 - Threshold<br>Values % |
|-----------|----------|----------|----------------------------------|
| Phenol    | 108-95-2 | >95      | 1.0                              |

#### SARA 311/312 Hazard Categories

| Acute Health Hazard               | Yes |
|-----------------------------------|-----|
| Chronic Health Hazard             | Yes |
| Fire Hazard                       | Yes |
| Sudden Release of Pressure Hazard | No  |
| Reactive Hazard                   | Yes |

#### **CWA (Clean Water Act)**

| Component | CWA - Hazardous<br>Substances | CWA - Reportable<br>Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants |
|-----------|-------------------------------|--------------------------------|------------------------|---------------------------|
| Phenol    | Х                             | 1000 lb                        | Х                      | Х                         |

#### Clean Air Act

| Component | HAPS Data | Class 1 Ozone Depletors | Class 2 Ozone Depletors |
|-----------|-----------|-------------------------|-------------------------|
| Phenol    | Х         |                         | -                       |

**OSHA** Occupational Safety and Health Administration Not applicable

#### 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)

| Component                             | Hazardous Substances RQs                  | CERCLA EHS RQs |
|---------------------------------------|---|----------------|
| Phenol                                | 1000 lb                                   | 1000 lb        |
| California Dranasitian 65 This produc | t doop not contain any Droppolition GE ab | omicolo        |

California Proposition 65This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

| Regulations |               |            |              |          |              |
|-------------|---------------|------------|--------------|----------|--------------|
| Component   | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
| Phenol      | Х             | Х          | Х            | Х        | Х            |

#### U.S. Department of Transportation

| Reportable Quantity (RQ):   | Ν |
|-----------------------------|---|
| DOT Marine Pollutant        | Ν |
| DOT Severe Marine Pollutant | Ν |

#### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

B3 Combustible liquid D1A Very toxic materials E Corrosive material D2A Very toxic materials



#### 16. Other information

Prepared By

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Creation Date03-Dec-2010Revision Date22-Jul-2016Print Date22-Jul-2016Revision SummaryThis document has been updated to comply with the US OSHA HazCom 2012 Standard<br/>replacing the current legislation under 29 CFR 1910.1200 to align with the Globally<br/>Harmonized System of Classification and Labeling of Chemicals (GHS)

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**