



SAFETY DATA SHEET

WES260A

Issuing Date: 25-Jun-2012

Revision Date: 17-May-2014

Version 4

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name WES260A

UN/ID No UN2022

Molecular Weight No information available

Recommended use Chemical intermediate. Solvent mixture.

Manufacturer Sasol Chemicals (USA) LLC
1914 Haden Road, Houston, TX 77015-6498
Telephone: (713) 428-5400

Emergency telephone

| Call Center | Region | Number |
|-------------|---|----------------------|
| NCEC | Europe, Israel, Africa, Americas | +44 (0) 2087 628 322 |
| | Middle East, Arabic African Countries (where European languages are spoken) | +44 (0) 1235 239 670 |
| | Middle East/Africa (where Arabic is spoken) | +44 (0) 1235 239 671 |
| | Asia Pacific | +65 3158 1074 |
| | China | +86 10 5100 3039 |
| SCC | Australia | +61 2801 44558 |
| | Southern Africa (Sasol Call Centre) | +27 17 610 4444 |
| Chemtrec® | North America | +27 800 112 890 |
| | World Wide | +1 800 424 9300 |
| | | +1 703 527 3887 |

2. HAZARDS IDENTIFICATION

GHS - Classification

| | |
|-----------------------------------|--------------|
| Acute oral toxicity | Category 3 |
| Acute dermal toxicity | Category 3 |
| Skin corrosion/irritation | Category 1 b |
| Serious eye damage/eye irritation | Category 1 |
| Skin sensitization | Category 1 |
| Acute aquatic toxicity | Category 2 |
| Chronic aquatic toxicity | Category 2 |

GHS Label elements, including precautionary statements



Signal Word: DANGER

Hazard statements

- Toxic if swallowed
- Toxic in contact with skin
- Causes severe skin burns and eye damage
- May cause an allergic skin reaction
- Toxic to aquatic life with long lasting effects

Physical hazards

Flammable liquids Category 4

- Combustible Liquid

Precautionary Statements - EU (§28, 1272/2008)

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/ physician

P403 + P235 - Store in a well-ventilated place. Keep cool

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

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction

P273 - Avoid release to the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight % | EC-No |
|--------------------|------------|----------|-----------|
| 2,4-Dimethylphenol | 105-67-9 | 10-30 | 203-321-6 |
| m-Cresol | 108-39-4 | 10-30 | 203-577-9 |
| Phenol, 4-ethyl- | 123-07-9 | 1-20 | 204-598-6 |
| p-Cresol | 106-44-5 | 5-15 | 203-398-6 |
| 3-ethylphenol | 620-17-7 | 1-20 | 210-627-3 |
| 2,5-Xylenol | 95-87-4 | 5-15 | 202-461-5 |
| 2,3-xylenol | 526-75-0 | 1-10 | 208-395-3 |
| 3,5-Xylenol | 108-68-9 | 1-10 | 203-606-5 |
| o-Ethylphenol | 90-00-6 | 1-10 | 201-958-4 |
| Alkylphenols | 26998-80-1 | 1-10 | 248-158-1 |
| 3,4-Dimethylphenol | 95-65-8 | 1-10 | 202-439-5 |
| 2,6-xylenol | 576-26-1 | 1-10 | 209-400-1 |
| Phenol | 108-95-2 | 0-5 | Present |

4. FIRST AID MEASURES

| | |
|-----------------------------------|--|
| General advice | Immediate medical attention is required. |
| Main symptoms | Salivation. Tremors. Convulsions. Erythema. Burn. Dizziness. Hypoactivity. |
| Eye contact | Immediate medical attention is required. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. |
| Skin contact | Immediate medical attention is required. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Apply PEG/EtOH solution liberally to affected area. Allow to remain 15 to 30 seconds, then wash with water. Continue cycle of water - 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). Finish decontamination with thorough washing using soap and water. |
| Inhalation | Move to fresh air. Call a physician or poison control center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. |
| Ingestion | Immediate medical attention is required. Do NOT induce vomiting. Rinse mouth. Ingest immediately about 350 ml (5 ml/kg body weight) of activated charcoal slurry. Note: To prepare activated charcoal slurry, mix thoroughly 50 g of activated charcoal in 400 ml (about 2 cups) water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. |
| Notes to physician | 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. Treat symptomatically. |
| Protection of first-aiders | Use personal protective equipment. Avoid contact with skin, eyes and clothing. |

5. FIRE-FIGHTING MEASURES

Flammable properties

Combustible Liquid.

Suitable Extinguishing Media

Dry chemical, Foam, Water spray, Carbon dioxide (CO₂).

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|--|
| Personal precautions | Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Should not be released into the environment. Prevent product from entering drains. |
| Methods for containment | Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). |
| Methods for cleaning up | Soak up with inert absorbent material. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. |
| OTHER INFORMATION | Refer to protective measures listed in sections 7 and 8. |

7. HANDLING AND STORAGE

| | |
|--|--|
| Advice on safe handling | Provide adequate information, instruction and training for operators. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. |
| Technical measures/Storage conditions | Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep away from open flames, hot surfaces and sources of ignition. |
| Incompatible products | Incompatible with strong acids and bases. Incompatible with oxidizing agents, copper alloys, aluminum. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure guidelines**

| Chemical Name | ACGIH TLV | NIOSH REL | OSHA PEL | Ontario TWA | European Union |
|---------------|--|--|--|--------------------|---|
| m-Cresol | TWA: 20 mg/m ³ inhalable fraction and vapor S* | IDLH: 250 ppm TWA: 2.3 ppm TWA: 10 mg/m ³ | 5 ppm (cresols) | TWA: 5 ppm Skin | |
| p-Cresol | TWA: 20 mg/m ³ inhalable fraction and vapor S* | IDLH: 250 ppm TWA: 2.3 ppm TWA: 10 mg/m ³ | 5 ppm (cresols) | TWA: 5 ppm Skin | |
| Phenol | TWA: 5 ppm S* | IDLH: 250 ppm Ceiling: 15.6 ppm 15 min Ceiling: 60 mg/m ³ 15 min TWA: 5 ppm TWA: 19 mg/m ³ | TWA: 5 ppm TWA: 19 mg/m ³ (vacated) TWA: 5 ppm (vacated) TWA: 19 mg/m ³ (vacated) S* S* | TWA: 5 ppm Skin | S* TWA 7.8 mg/m ³ TWA 2 ppm (3rd:) TWA 2 ppm (3rd:) TWA 8 mg/m ³ (3rd:) STEL 4 ppm (3rd:) STEL 16 mg/m ³ (3rd:) S* |

| Chemical Name | China | Japan | Korea | Australia | Taiwan |
|---------------|---|--|---|--------------------------------------|---|
| m-Cresol | TWA: 10 mg/m ³ STEL: 20 mg/m ³ Skin | TWA: 5 ppm TWA: 22 mg/m ³ ISHL/ACL: 5 ppm | Skin TWA: 5 ppm TWA: 22 mg/m ³ | | |
| p-Cresol | TWA: 10 mg/m ³ STEL: 20 mg/m ³ Skin | TWA: 5 ppm TWA: 22 mg/m ³ ISHL/ACL: 5 ppm | Skin TWA: 5 ppm TWA: 22 mg/m ³ | | |
| Phenol | TWA: 10 mg/m ³ STEL: 20 mg/m ³ Skin | TWA: 5 ppm TWA: 19 mg/m ³ Skin | Skin TWA: 5 ppm TWA: 19 mg/m ³ | 1 ppm 4 mg/m ³ Skin | TWA: 5 ppm TWA: 19 mg/m ³ |

| Chemical Name | Mexico | Brazil | Argentina | Venezuela | India |
|---------------|---|---|--------------------|--------------------|---|
| m-Cresol | | | TWA: 5 ppm Skin | | TWA: 5 ppm TWA: 22 mg/m ³ Skin |
| p-Cresol | | | TWA: 5 ppm Skin | | TWA: 5 ppm TWA: 22 mg/m ³ Skin |
| Phenol | Mexico: TWA 5 ppm Mexico: TWA 19 mg/m ³ Mexico: STEL 10 ppm Mexico: STEL 38 mg/m ³ | TWA: 4 ppm TWA: 15 mg/m ³ Skin | TWA: 5 ppm Skin | Skin TWA: 5 ppm | TWA: 5 ppm TWA: 19 mg/m ³ Skin |

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Engineering measures Handle only in a place equipped with local exhaust (or other appropriate exhaust). Drain down and flush system prior to equipment break-in or maintenance. Carry out filling operations only at stations with exhaust ventilation facilities. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection Tightly fitting safety goggles. Face-shield.

Skin and body protection Wear as appropriate: Impervious clothing; Impervious gloves; Boots; Chemical resistant apron.

Hand protection Fluorinated rubber, Chloroprene, Polyvinylchloride, Break through time, >60 min. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

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

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Wash hands and face before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Contaminated work clothing should not be allowed out of the workplace. Provide regular cleaning of equipment, work area and clothing. Keep away from food, drink and animal feeding stuffs.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------------------|--------------------------|
| Physical State @20°C | Liquid |
| appearance | Amber |
| Odor | Phenolic |
| Odor Threshold | No information available |
| pH | 5.5 |
| Melting point/range | -4.000 °F / -20 °C |
| Boiling point/boiling range | 392-455 °F / 200-235 °C |
| Flash point | 196 °F / 91 °C |
| Evaporation rate | No information available |
| Flammable properties | Combustible Liquid |
| Flammability Limits in Air | |
| upper | 8 |
| lower | 1 |
| Vapor pressure | 0.2 mmHg @ 25 °C |
| Vapor density | 4 |
| Specific Gravity | 1.03 |
| Water solubility | 20 g/L @ 25 °C |
| Partition coefficient: | 2 |
| Autoignition temperature | 1038.000 °F / 559 °C |
| Viscosity, dynamic | 4 cP @ 50°C |
| Molecular Weight | No information available |

Dust explosion properties

10. STABILITY AND REACTIVITY

| | |
|---|---|
| Stability | Stable under normal conditions. |
| Conditions to avoid | Heat, flames and sparks. |
| Incompatible products | Incompatible with strong acids and bases, Incompatible with oxidizing agents, copper alloys, aluminum. |
| Hazardous decomposition products | Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide. Carbon dioxide (CO ₂). |
| Hazardous reactions | None under normal processing. |

11. TOXICOLOGICAL INFORMATION**Product Information**

Acute toxicity 29% of the mixture consists of ingredient(s) of unknown toxicity.

| | |
|-------------------|-----------|
| Oral | 379 mg/kg |
| Dermal | 382 mg/kg |
| Inhalation | |
| gas | NA mg/l |
| Mist | NA mg/l |
| vapor | NA mg/l |

Component Information

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--------------------|------------------------------------|--|-------------------------------------|
| 2,4-Dimethylphenol | = 3200 mg/kg (Rat) | = 1040 mg/kg (Rat) | |
| m-Cresol | = 242 mg/kg (Rat) | = 2050 mg/kg (Rabbit) | > 710 mg/m ³ (Rat) 1 h |
| p-Cresol | = 207 mg/kg (Rat) | = 750 mg/kg (Rat) = 130 mg/kg (Rabbit) | > 710 mg/m ³ (Rat) 1 h |
| 2,5-Xylenol | = 444 mg/kg (Rat) | | |
| 2,3-xylenol | = 562000 mg/m ³ (Rat) | = 1040000 mg/m ³ (Rabbit) | |
| 3,5-Xylenol | = 608 mg/kg (Rat) | > 800 mg/kg (Rat) | |
| 3,4-Dimethylphenol | = 727 mg/kg (Rat) | | |
| 2,6-xylenol | = 296 mg/kg (Rat) | = 1000 mg/kg (Rabbit) = 2325 mg/kg (Rat) | |
| Phenol | = 317 mg/kg (Rat) | = 630 mg/kg (Rabbit) | = 316 mg/m ³ (Rat) 4 h |

Chronic toxicity

Carcinogenicity There are no known carcinogenic chemicals in this product.

| Chemical Name | IARC |
|---------------|---------|
| Phenol | Group 3 |

IARC: (International Agency for Research on Cancer)

Group 3: Not classifiable as to its carcinogenicity to humans

| | |
|-------------------------------|---|
| Irritation | Causes severe irritation and or burns. |
| Sensitization | May cause sensitization by skin contact. |
| Mutagenic effects | None known. |
| Reproductive toxicity | This product does not contain any known or suspected reproductive hazards. |
| Developmental Toxicity | None known. |
| Target Organ Effects | Pancreas, Central nervous system (CNS), Central Vascular System (CVS), Eyes, Kidney, Liver, Respiratory system, Skin, Central nervous system (CNS), Central Vascular System (CVS), Eyes, Kidney, Liver, Pancreas, Respiratory system, Skin. |

12. ECOLOGICAL INFORMATION**Ecotoxicity**

16% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Toxic to aquatic life with long lasting effects.

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to microorganisms | Toxicity to daphnia and other aquatic invertebrates |
|--------------------|---|---|--|--|
| 2,4-Dimethylphenol | | LC50 96 h: = 15.4 mg/L flow-through (<i>Pimephales promelas</i>) LC50 96 h: 6.3 - 9.6 mg/L static (<i>Lepomis macrochirus</i>) LC50 96 h: 4.1 - 9.6 mg/L flow-through (<i>Lepomis macrochirus</i>) LC50 96 h: 7.8 - 11 mg/L flow-through (<i>Oncorhynchus mykiss</i>) LC50 96 h: 11.3 - 13.9 mg/L flow-through (<i>Oryzias latipes</i>) | EC50 = 2.49 mg/L 5 min EC50 = 2.61 mg/L 15 min EC50 = 2.67 mg/L 30 min | EC50 48 h: 1.77 - 3.17 mg/L (<i>Daphnia magna</i>) |
| m-Cresol | | LC50 96 h: = 7.6 mg/L static (<i>Salvelinus fontinalis</i>) | EC50 = 6.82 mg/L 5 min EC50 = 7.48 mg/L 15 min EC50 = 7.83 mg/L 30 min | LC50 48 h: = 18.8 mg/L (<i>Daphnia magna</i>) |
| Phenol, 4-ethyl- | EC50 48 h: = 168 mg/L (<i>Tetrahymena pyriformis</i>) | LC50 96 h: = 10.4 mg/L flow-through (<i>Pimephales promelas</i>) | | |
| p-Cresol | | LC50 96 h: 15.9 - 17 mg/L flow-through (<i>Pimephales promelas</i>) LC50 96 h: = 19 mg/L static (<i>Pimephales promelas</i>) LC50 96 h: = 7.5 mg/L flow-through (<i>Oncorhynchus mykiss</i>) | EC50 = 160 mg/L 24 h EC50 = 2.06 mg/L 5 min EC50 = 2.31 mg/L 15 min EC50 = 2.37 mg/L 30 min | EC50 48 h: = 21.1 mg/L (<i>Daphnia magna</i>) |

| | | | | |
|-------------|--|---|--|--|
| 3,5-Xylenol | | LC50 96 h: = 13 mg/L (<i>Oncorhynchus mykiss</i>) LC50 96 h: = 22 mg/L static (<i>Carassius auratus</i>) | EC50 = 12.5 mg/L 15 min EC50 = 12.5 mg/L 30 min EC50 = 12.5 mg/L 5 min | EC50 48 h: = 24 mg/L (<i>Daphnia magna</i>) |
| 2,6-xylenol | | LC50 96 h: = 27 mg/L flow-through (<i>Pimephales promelas</i>) | | EC50 48 h: = 11.2 mg/L (<i>Daphnia magna</i>) EC50 48 h: = 11.2 mg/L Static (<i>Daphnia magna</i>) |
| Phenol | EC50 96 h: = 46.42 mg/L (<i>Pseudokirchneriella subcapitata</i>) EC50 96 h: 0.0188 - 0.1044 mg/L static (<i>Pseudokirchneriella subcapitata</i>) EC50 72 h: 187 - 279 mg/L static (<i>Desmodesmus subspicatus</i>) | LC50 96 h: 11.9 - 50.5 mg/L flow-through (<i>Pimephales promelas</i>) LC50 96 h: 20.5 - 25.6 mg/L static (<i>Pimephales promelas</i>) LC50 96 h: = 32 mg/L (<i>Pimephales promelas</i>) LC50 96 h: 5.449 - 6.789 mg/L flow-through (<i>Oncorhynchus mykiss</i>) LC50 96 h: 7.5 - 14 mg/L static (<i>Oncorhynchus mykiss</i>) LC50 96 h: 4.23 - 7.49 mg/L semi-static (<i>Oncorhynchus mykiss</i>) LC50 96 h: 5.0 - 12.0 mg/L (<i>Oncorhynchus mykiss</i>) LC50 96 h: = 13.5 mg/L static (<i>Lepomis macrochirus</i>) LC50 96 h: 11.9 - 25.3 mg/L flow-through (<i>Lepomis macrochirus</i>) LC50 96 h: = 11.5 mg/L semi-static (<i>Lepomis macrochirus</i>) LC50 96 h: 34.09 - 47.64 mg/L static (<i>Poecilia reticulata</i>) LC50 96 h: = 31 mg/L semi-static (<i>Poecilia reticulata</i>) LC50 96 h: = 27.8 mg/L (<i>Brachydanio rerio</i>) LC50 96 h: 33.9 - 43.3 mg/L flow-through (<i>Oryzias latipes</i>) LC50 96 h: 23.4 - 36.6 mg/L static (<i>Oryzias latipes</i>) | EC50 21 - 36 mg/L 30 min EC50 = 23.28 mg/L 5 min EC50 = 25.61 mg/L 15 min EC50 = 28.8 mg/L 5 min EC50 = 31.6 mg/L 15 min | EC50 48 h: 4.24 - 10.7 mg/L Static (<i>Daphnia magna</i>) EC50 48 h: 10.2 - 15.5 mg/L (<i>Daphnia magna</i>) |

Persistence and degradability

Inherently biodegradable.

Bioaccumulative potential

Not likely to bioaccumulate

Mobility

Not expected to adsorb on soil. The product evaporates slowly.

| Chemical Name | log Pow |
|--------------------|---------|
| 2,4-Dimethylphenol | 2.42 |
| m-Cresol | 1.96 |
| Phenol, 4-ethyl- | 2.58 |

| | |
|-------------|------|
| p-Cresol | 1.94 |
| 3,5-Xylenol | 2.06 |
| 2,6-xylenol | 2.36 |
| Phenol | 1.47 |

13. DISPOSAL CONSIDERATIONS

| | |
|--|---|
| Waste from residues / unused products | Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. The aqueous medium should be given appropriate treatment as waste water in line with local regulations. |
| Contaminated packaging | Do not re-use empty containers. Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal. Can be incinerated, when in compliance with local regulations. Where possible recycling is preferred to disposal or incineration. |

14. TRANSPORT INFORMATION

IMDG/IMO

| | |
|--------------------------------|---|
| Proper Shipping Name | Cresylic Acid |
| Hazard class | 6.1 |
| Subsidiary hazard class | 8 |
| UN/ID No | UN2022 |
| Packing group | II |
| Description | UN2022, Cresylic Acid, 6.1, (8), II, Marine Pollutant (2,4-xylenol) |

ICAO/IATA

| | |
|--------------------------------|-------------------------------------|
| UN/ID No | UN2022 |
| Proper Shipping Name | Cresylic Acid |
| Hazard class | 6.1 |
| Subsidiary hazard class | 8 |
| Packing group | II |
| Description | UN2022, Cresylic Acid, 6.1, (8), II |

DOT

| | |
|-----------------------------|-------------------------------------|
| Proper Shipping Name | Cresylic Acid |
| Hazard class | 6.1 |
| Subsidiary Class | 8 |
| UN/ID No | UN2022 |
| Packing group | II |
| Description | UN2022, Cresylic Acid, 6.1, (8), II |

ADR/RID

| | |
|-----------------------------|-------------------------------------|
| Proper Shipping Name | Cresylic Acid |
| Hazard class | 6.1 |
| UN/ID No | UN2022 |
| Packing group | II |
| Description | UN2022, Cresylic Acid, 6.1, (8), II |
| ADR/RID-Labels | 8 |

15. REGULATORY INFORMATION

International Inventories

All of the components in the product are on the following Inventory lists:

| | |
|----------------------|----------|
| TSCA | Complies |
| EINECS/ELINCS | Complies |
| DSL/NDSL | - |
| PICCS | - |
| ENCS | Complies |
| IECSC | Complies |
| AICS | Complies |
| KECL | - |

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

RESTRICTIONS - REACH TITLE VIII No information available

U.S. 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:

| Chemical Name | CAS-No | Weight % | SARA 313 - Threshold Values % |
|--------------------|----------|----------|-------------------------------|
| 2,4-Dimethylphenol | 105-67-9 | 10-30 | 1.0 |
| m-Cresol | 108-39-4 | 10-30 | 1.0 |
| p-Cresol | 106-44-5 | 5-15 | 1.0 |

SARA 311/312 Hazard Categories

| | |
|--|-----|
| Acute Health Hazard | yes |
| Chronic Health Hazard | no |
| Fire Hazard | yes |
| Sudden Release of Pressure Hazard | no |
| Reactive Hazard | no |

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|--------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| 2,4-Dimethylphenol | | X | X | |
| m-Cresol | | | | X |
| p-Cresol | | | | X |
| Phenol | 1000 lb | X | X | X |

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 | RQ |
|--------------------|--------------------------|------------------------------------|---|
| 2,4-Dimethylphenol | 100 lb | | RQ 100 lb final RQ RQ 45.4 kg final RQ |
| m-Cresol | 100 lb | | RQ 100 lb final RQ RQ 45.4 kg final RQ |
| p-Cresol | 100 lb | | RQ 100 lb final RQ RQ 45.4 kg final RQ |
| 2,5-Xylenol | Xylenols | | 1000 lb |
| 2,3-xylenol | Xylenols | | 1000 lb |
| 3,5-Xylenol | Xylenols | | 1000 lb |
| 3,4-Dimethylphenol | Xylenols | | 1000 lb |
| 2,6-xylenol | Xylenols | | 1000 lb |
| Phenol | 1000 lb | 1000 lb | RQ 1000 lb final RQ RQ 454 kg final RQ |

U.S. STATE REGULATIONS**U.S. State Right-to-Know Regulations**

| Chemical Name | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|--------------------|---------------|------------|--------------|----------|--------------|
| 2,4-Dimethylphenol | X | X | X | | |
| m-Cresol | X | X | X | X | |
| p-Cresol | X | X | X | X | |
| Phenol | X | X | X | X | X |

| Chemical Name | NPRI |
|---------------|------|
| m-Cresol | X |
| p-Cresol | X |
| Phenol | X |

Legend

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

| | |
|---------------|---|
| Health Hazard | 3 |
| Fire Hazard | 2 |
| Reactivity | 0 |

Issuing Date: 25-Jun-2012

Revision Date: 17-May-2014

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.