



Creation Date 03-Dec-2010

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Revision Number 12

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

| Product Description: | |
|---------------------------|--|
| Cat No. : | |
| Synonyms | |
| CAS-No | |
| EC-No. | |
| Molecular Formula | |
| Reach Registration Number | |

Phenol 180780000; 180781000; 180785000 Carbolic acid; Hydroxybenzene 108-95-2 203-632-7 C6 H6 O

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

| Recommended Use Sector of use | Laboratory chemicals. SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites |
|----------------------------------|---|
| Product category | PC21 - Laboratory chemicals |
| Process categories | PROC15 - Use as a laboratory reagent |
| Environmental release category | ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates) |
| Uses advised against | No Information available |

1.3. Details of the supplier of the safety data sheet

| Company | UK entity/business name Fisher Scientific UK Bishop Meadow Road, Loughborough, Leicestershire LE11 5RG, United Kingdom |
|---------------------------------|--|
| | EU entity/business name Acros Organics BVBA Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium |
| E-mail address | begel.sdsdesk@thermofisher.com |
| 1.4. Emergency telephone number | For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 |

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe:**001-703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008

Physical hazards

Phenol

Based on available data, the classification criteria are not met

Health hazards

Acute oral toxicity Acute dermal toxicity Acute Inhalation Toxicity - Dusts and Mists Skin Corrosion/Irritation Germ Cell Mutagenicity Specific target organ toxicity - (repeated exposure)

Environmental hazards

Chronic aquatic toxicity

Category 3 (H301) Category 3 (H311) Category 3 (H331) Category 1 B (H314) Category 2 (H341) Category 2 (H373)

Category 2 (H411)

Full text of Hazard Statements: see section 16



Signal Word

Danger

Hazard Statements

- H314 Causes severe skin burns and eye damage
- H341 Suspected of causing genetic defects
- H373 May cause damage to organs through prolonged or repeated exposure
- H411 Toxic to aquatic life with long lasting effects
- H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled

Precautionary Statements

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

- P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting
- P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

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

P310 - Immediately call a POISON CENTER or doctor/physician

2.3. Other hazards

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB)

Combustible material Toxicity to Soil Dwelling Organisms Toxic to terrestrial vertebrates

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Phenol

-

3.1. Substances

| Component | CAS-No | EC-No. | Weight % | CLP Classification - Regulation (EC) No 1272/2008 |
|-----------|----------|-----------|----------|--|
| Phenol | 108-95-2 | 203-632-7 | >95 | Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Muta. 2 (H341) STOT RE 2 (H373) Aquatic Chronic 2 (H411) |

| Component | Specific concentration limits (SCL's) | M-Factor | Component notes |
|-----------|---|----------|-----------------|
| Phenol | Eye Irrit. 2 :: 1%<=C<3% Skin Corr. 1B :: C>=3% Skin Irrit. 2 :: 1%<=C<3% | - | - |

Reach Registration Number

Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

| General Advice | Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. |
|-------------------------------------|---|
| Eye Contact | In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. |
| Skin Contact | Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required. |
| Ingestion | Do NOT induce vomiting. Call a physician or poison control center immediately. |
| Inhalation | Remove to fresh air. If not breathing, give artificial respiration. 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. |
| 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. |
| 4.2. Most important symptoms and | effects, both acute and delayed |
| | 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 |
| 4.3. Indication of any immediate me | edical attention and special treatment needed |
| Notes to Physician | Treat symptomatically. |

Phenol

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Water mist may be used to cool closed containers. CO₂, dry chemical, dry sand, alcohol-resistant foam.

Extinguishing media which must not be used for safety reasons No information available.

5.2. Special hazards arising from the substance or mixture

The product causes burns of eyes, skin and mucous membranes.

Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO₂).

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Evacuate personnel to safe areas. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid dust formation.

6.2. Environmental precautions

Should not be released into the environment.

6.3. Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not ingest. If swallowed then seek immediate medical assistance. Do not breathe (dust, vapor, mist, gas). Avoid dust formation.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Phenol

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Protect from moisture. Protect from light. Corrosives area. Store under an inert atmosphere. Keep container tightly closed in a dry and well-ventilated place.

Technical Rules for Hazardous Substances (TRGS) 510 Storage Class (LGK) Class 6.1C (Germany)

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

List source(s): **EU** - Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC **UK** - EH40/2005 Work Exposure Limits, Third edition. Published 2018. **IRE** - 2018 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority

| Component | The United Kingdom | European Union | Ireland |
|-----------|-----------------------------------|------------------------------------|-----------------------------------|
| Phenol | STEL: 4 ppm 15 min | TWA: 2 ppm (8h) | TWA: 2 ppm 8 hr. |
| | STEL: 16 mg/m ³ 15 min | TWA: 8 mg/m ³ (8h) | TWA: 8 mg/m ³ 8 hr. |
| | TWA: 2 ppm 8 hr | STEL: 4 ppm (15min) | STEL: 4 ppm 15 min |
| | TWA: 7.8 mg/m ³ 8 hr | STEL: 16 mg/m ³ (15min) | STEL: 16 mg/m ³ 15 min |
| | Skin | Skin | Skin |

Biological limit values

List source(s):

| Component | United Kingdom | European Union |
|-----------|----------------|--|
| Phenol | | Phenol: 120 mg/g urine (end of shift after |
| | | hydrolysis; measured as mg/g Creatinine) |

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust MDHS70 General methods for sampling airborne gases and vapours

Derived No Effect Level (DNEL) No information available

| Route of exposure | Acute effects (local) | Acute effects (systemic) | Chronic effects (local) | Chronic effects (systemic) |
|-------------------|-----------------------|-----------------------------|----------------------------|-------------------------------|
| Oral | | | | |
| Dermal | | | | 1.23 mg/kg bw/day |
| Inhalation | | | | 8 mg/m ³ |

Predicted No Effect Concentration See values below. (PNEC)

| Fresh water | 0,0077 mg/L |
|-----------------------|--------------------|
| Fresh water sediment | 0,0915 mg/kg dwt. |
| Marine water | 0,00077mg/L |
| Marine water sediment | 0,00915 mg/kg dwt. |
| Soil (Agriculture) | 0,136 mg/kg dwt. |

8.2. Exposure controls

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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.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

| and Protection | Protectiv | ve gloves Butyl rubbe | r Neoprene | |
|--|---|-----------------------|-----------------------|---|
| Glove material Natural rubber Butyl rubber Nitrile rubber Neoprene PVC Neoprene gloves | Breakthrough time See manufacturers recommendations | Glove thickness | EU standard EN 374 | Glove comments (minimum requirement) |

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

| Respiratory Protection | Effective dust mask Filter type A. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly |
|---------------------------------|---|
| Large scale/emergency use | Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced Recommended Filter type: Particulates filter conforming to EN 143 |
| Small scale/Laboratory use | Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Recommended half mask:- Valve filtering: EN405; or; Half mask: EN140; plus filter, EN 141; Particle filtering: EN149:2001 When RPE is used a face piece Fit Test should be conducted |
| Environmental exposure controls | Prevent product from entering drains. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| Physical State | Crystalline Solid | |
|--|--|---------------------|
| Appearance Odor Odor Threshold Melting Point/Range Softening Point Boiling Point/Range Flammability (liquid) Flammability (solid,gas) Explosion Limits | Colorless - Translucent White pungent No data available 39 - 42 °C / 102.2 - 107.6 °F No data available 182 °C / 359.6 °F Not applicable No information available Lower 1.3 Vol% | @ 760 mmHg Solid |

| | Upper 9.5 Vol% | |
|---|--|-----------------------------------|
| Flash Point | 79 °C / 174.2 °F | Method - No information available |
| Autoignition Temperature | 605 °C / 1121 °F | |
| Decomposition Temperature | No data available | |
| pH | 6 @ 20°C | 10 g/L aq.sol |
| Viscosity | 3.437 mPa.s (50°C) | |
| Water Solubility | Soluble | |
| Solubility in other solvents | No information available | |
| Partition Coefficient (n-octanol/wat | er) | |
| Component | log Pow | |
| Phenol | 1.5 | |
| Vapor Pressure | 0.4 mbar @ 20 °C | |
| Density / Specific Gravity | 1.070 | |
| Bulk Density | No data available | |
| Vapor Density | Not applicable | Solid |
| Particle characteristics | No data available | |
| 9.2. Other information | | |
| Molecular Formula Molecular Weight Explosive Properties Evaporation Rate | C6 H6 O 94.11 explosive air/vapour mixtures possible Not applicable - Solid | 9 |

SECTION 10: STABILITY AND REACTIVITY

| 10.1. Reactivity | Yes |
|---|---|
| 10.2. Chemical stability | Hygroscopic, Light sensitive. |
| 10.3. Possibility of hazardous react | tions |
| Hazardous Polymerization Hazardous Reactions | No information available. None under normal processing. |
| 10.4. 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. Exposure to moist air or water. |
| 10.5. Incompatible materials | Acids. Bases. Strong oxidizing agents. Halogens. Lead. Metals. |
| 10.6. Hazardous decomposition pro | oducts |

Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information

(a) acute toxicity; Oral

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| Dermal Inhalation | Category 3 Category 3 | | | | | |
|---|--|---|--|--|--|--|
| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation | | | |
| Phenol | Calc. ATE 60 mg/kg (Human evidence) LD50 = 340 mg/kg (Rat) 650 mg/kg (Rat; OECD 401) | Calc. ATE 300 mg/kg (Human evidence) LD50 = 660 mg/kg (Rat) 850 - 1400 mg/kg (Rabbit) | Calc. ATE 0.5 mg/l (Human evidence) LC50 >900 mg/m³/8h (Rat) | | | |
| (b) skin corrosion/irritation; | Category 1 B | | | | | |
| (c) serious eye damage/irritation; | Category 1 | | | | | |
| (d) respiratory or skin sensitization; Respiratory Skin | Based on available data, the o | classification criteria are not me classification criteria are not me | | | | |
| (e) germ cell mutagenicity; | Category 2 | | | | | |
| (f) carcinogenicity; | Based on available data, the o | classification criteria are not me | t | | | |
| | The table below indicates whether each agency has listed any ingredient as a carcinogen | | | | | |
| (g) reproductive toxicity; Reproductive Effects | Based on available data, the classification criteria are not met Experiments have shown reproductive toxicity effects on laboratory animals. | | | | | |
| (h) STOT-single exposure; | Based on available data, the classification criteria are not met | | | | | |
| (i) STOT-repeated exposure; | Category 2 | | | | | |
| Target Organs | Central nervous system (CNS), Skin, Liver, Kidney. | | | | | |
| (j) aspiration hazard; | Not applicable Solid | | | | | |
| Other Adverse Effects | Tumorigenic effects have been reported in experimental animals. See actual entry in RTECS for complete information | | | | | |
| Symptoms / effects,both acute and delayed | d 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. | | | | | |
| 11.2. Information on other hazards | | | | | | |
| Endocrine Disrupting Properties | Assess endocrine disrupting p known or suspected endocrine | properties for human health. Th e disruptors. | is product does not contain ar | | | |

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity Ecotoxicity effects

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

Phenol

Phenol

environment.

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

| Component | Microtox | M-Factor |
|-----------|--------------------------|----------|
| Phenol | 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 | |

| 12.2. Persistence and degradability Persistence Degradation in sewage treatment plant | Soluble in water, Persistence is unlikely, based on information available. Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants. | | | |
|---|---|-------------------------------|--|--|
| 12.3. Bioaccumulative potential | Bioaccumulation is unlikely | | | |
| Component | log Pow | Bioconcentration factor (BCF) | | |
| Phenol | 1.5 | 17.5 | | |
| <u>12.4. Mobility in soil</u> | The product is water soluble, and may spread in environment due to its water solubility. Highly m | | | |
| <u>12.5. Results of PBT and vPvB</u> assessment | Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB). | | | |
| <u>12.6. Endocrine disrupting</u> properties Endocrine Disruptor Information | This product does not contain any known or sus | pected endocrine disruptors | | |
| <u>12.7. Other adverse effects</u> Persistent Organic Pollutant Ozone Depletion Potential | This product does not contain any known or sus This product does not contain any known or sus | | | |

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

| Waste from Residues/Unused Products | Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. |
|--|---|
| Contaminated Packaging | Dispose of this container to hazardous or special waste collection point. |
| European Waste Catalogue (EWC) | According to the European Waste Catalog, Waste Codes are not product specific, but application specific. |
| Other Information | Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Large amounts will affect pH and harm aquatic organisms. Do not let this chemical enter the environment. |

Phenol

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

| <u>14.1. UN number</u> <u>14.2. UN proper shipping name</u> <u>14.3. Transport hazard class(es)</u> <u>14.4. Packing group</u> | UN1671 PHENOL, SOLID 6.1 II |
|---|--|
| ADR | |
| <u>14.1. UN number</u> 14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group | UN1671 PHENOL, SOLID 6.1 II |
| IATA | |
| <u>14.1. UN number</u> 14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group | UN1671 PHENOL, SOLID 6.1 II |
| 14.5. Environmental hazards | Dangerous for the environment Product is a marine pollutant according to the criteria set by IMDG/IMO |
| 14.6. Special precautions for user | No special precautions required |
| 14.7. Maritime transport in bulk according to IMO instruments | Not applicable, packaged goods |

SECTION 15: REGULATORY INFORMATION

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

International Inventories

X = listed, Europe (EINECS/ELINCS/NLP), U.S.A. (TSCA), Canada (DSL/NDSL), Philippines (PICCS), China (IECSC), Japan (ENCS), Australia (AICS), Korea (ECL).

| Component | EINECS | ELINCS | NLP | TSCA | DSL | NDSL | PICCS | ENCS | IECSC | AICS | KECL |
|-----------|-----------|--------|-----|------|-----|------|-------|------|-------|------|---------|
| Phenol | 203-632-7 | - | | Х | Х | - | Х | Х | Х | Х | KE-2820 |
| | | | | | | | | | | | 9 |

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

National Regulations

WGK Classification

See table for values

| Component | Germany - Water Classification (VwVwS) | Germany - TA-Luft Class |
|-----------|--|--|
| Phenol | WGK2 | Class I : 20 mg/m ³ (Massenkonzentration) |

Phenol

| Component | France - INRS (Tables of occupational diseases) | | |
|-----------|--|--|--|
| Phenol | Tableaux des maladies professionnelles (TMP) - RG 14 | | |
| | | | |

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H331 - Toxic if inhaled

H341 - Suspected of causing genetic defects

H411 - Toxic to aquatic life with long lasting effects

Legend

CAS - Chemical Abstracts Service TSCA - United States Toxic Substances Control Act Section 8(b) Inventory EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances/EU List of Notified Chemical Substances Substances List ENCS - Japanese Existing and New Chemical Substances **PICCS** - Philippines Inventory of Chemicals and Chemical Substances **IECSC** - Chinese Inventory of Existing Chemical Substances AICS - Australian Inventory of Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances NZIOC - New Zealand Inventory of Chemicals WEL - Workplace Exposure Limit TWA - Time Weighted Average ACGIH - American Conference of Governmental Industrial Hygienists IARC - International Agency for Research on Cancer **DNEL** - Derived No Effect Level Predicted No Effect Concentration (PNEC) **RPE** - Respiratory Protective Equipment LD50 - Lethal Dose 50% LC50 - Lethal Concentration 50% EC50 - Effective Concentration 50% **NOEC** - No Observed Effect Concentration **POW** - Partition coefficient Octanol:Water PBT - Persistent, Bioaccumulative, Toxic vPvB - very Persistent, very Bioaccumulative ADR - European Agreement Concerning the International Carriage of ICAO/IATA - International Civil Aviation Organization/International Air

Dangerous Goods by Road IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code **OECD** - Organisation for Economic Co-operation and Development BCF - Bioconcentration factor Key literature references and sources for data https://echa.europa.eu/information-on-chemicals Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Transport Association MARPOL - International Convention for the Prevention of Pollution from Ships

ATE - Acute Toxicity Estimate

VOC (volatile organic compound)

Training Advice

Chemical incident response training.

| Creation Date | 03-Dec-2010 |
|------------------|-----------------------|
| Revision Date | 11-Dec-2020 |
| Revision Summary | Update to CLP Format. |

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006

Disclaimer

Phenol

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 Safety Data Sheet