

SAFETY DATA SHEET

1. Identification

| Product identifier | 4-Hexylresorcinol | |
|---------------------------------|-------------------------|-----------------|
| Other means of identification | | |
| Product code | NG-16722 | |
| Recommended use | For Laboratory Use Only | |
| Recommended restrictions | None known. | |
| Manufacturer/Importer/Supplier/ | Distributor information | |
| Manufacturer | | |
| Company name | Chem Service, Inc. | |
| Address | 660 Tower Lane | |
| | West Chester, PA 19380 | |
| | United States | |
| Telephone | Toll Free | 800-452-9994 |
| | Direct | 610-692-3026 |
| Website | www.chemservice.com | |
| E-mail | info@chemservice.com | |
| Emergency phone number | Chemtrec US | 800-424-9300 |
| | Chemtrec outside US | +1 703-527-3887 |
| | | |

2. Hazard(s) identification

| Physical hazards | Not classified. | |
|-----------------------|----------------------|------------|
| Health hazards | Acute toxicity, oral | Category 4 |
| Environmental hazards | Not classified. | |
| OSHA defined hazards | Not classified. | |
| Label elements | | |



| Signal word | Warning |
|--|---|
| Hazard statement | Harmful if swallowed. |
| Precautionary statement | |
| Prevention | Wash thoroughly after handling. Do not eat, drink or smoke when using this product. |
| Response | If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. |
| Storage | Store away from incompatible materials. |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Hazard(s) not otherwise classified (HNOC) | None known. |
| Supplemental information | Not applicable. |

3. Composition/information on ingredients

| Substances |
|------------|
|------------|

| Chemical name | Common name and synonyms | CAS number | % |
|-------------------|--------------------------|------------|-----|
| 4-Hexylresorcinol | | 136-77-6 | 100 |

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

| Inhalation | Move to fresh air. Call a physician if symptoms develop or persist. |
|--------------|--|
| Skin contact | Wash off with soap and water. Get medical attention if irritation develops and persists. |
| Eye contact | Rinse with water. Get medical attention if irritation develops and persists. |
| Ingestion | Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. |

Material name: 4-Hexylresorcinol

Most important symptoms/effects, acute and delayed Indication of immediate medical attention and special treatment needed General information Direct contact with eyes may cause temporary irritation.

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). |
|--|---|
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed. |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire-fighting equipment/instructions | Use water spray to cool unopened containers. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. |
| General fire hazards | No unusual fire or explosion hazards noted. |

6. Accidental release measures

| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
|---|---|
| Methods and materials for containment and cleaning up | Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS. |
| Environmental precautions | Avoid discharge into drains, water courses or onto the ground. |
| 7. Handling and storage | |
| Precautions for safe handling | Do not taste or swallow. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. |
| Conditions for safe storage, including any incompatibilities | Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). |

8. Exposure controls/personal protection

| Occupational exposure limits | No exposure limits noted for ingredient(s). |
|------------------------------------|---|
| Biological limit values | No biological exposure limits noted for the ingredient(s). |
| Appropriate engineering controls | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. |
| Individual protection measures, | such as personal protective equipment |
| Eye/face protection | If contact is likely, safety glasses with side shields are recommended. |
| Skin protection Hand protection | For prolonged or repeated skin contact use suitable protective gloves. |
| Other | Wear suitable protective clothing. |
| Respiratory protection | In case of insufficient ventilation, wear suitable respiratory equipment. |
| Thermal hazards | Wear appropriate thermal protective clothing, when necessary. |
| General hygiene considerations | When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |

9. Physical and chemical properties

| - | | | |
|----|-----|-----|----|
| Ap | pea | ran | се |

| Physical state | Solid. |
|----------------|--------|
| Form | Solid. |

| Color | |
|--|---|
| | Pale yellow Not available. |
| Odor | |
| Odor threshold | Not available. |
| рН | Not available. |
| Melting point/freezing point | 153.5 - 156.2 °F (67.5 - 69 °C) |
| Initial boiling point and boiling range | 631.4 - 635 °F (333 - 335 °C) 101.325 kPa |
| Flash point | Not available. |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or expl | losive limits |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | 0 kPa at 25 °C |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Very slightly soluble |
| Partition coefficient (n-octanol/water) | 3.5 |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Molecular formula | C12-H18-O2 |
| Molecular weight | 194.26 g/mol |
| - | |

10. Stability and reactivity

| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. Reacts with acid halides and anhydrides. |
|---------------------------------------|---|
| Chemical stability | Material is stable under normal conditions. |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | Contact with incompatible materials. |
| Incompatible materials | Alkaline metals. |
| Hazardous decomposition products | No hazardous decomposition products are known. |

11. Toxicological information

Information on likely routes of exposure

| Ingestion | Harmful if swallowed. | |
|--|--|--|
| Inhalation | No adverse effects due to inhalation are expected. | |
| Skin contact | No adverse effects due to skin contact are expected. | |
| Eye contact | Direct contact with eyes may cause temporary irritation. | |
| Symptoms related to the physical, chemical and toxicological characteristics | Direct contact with eyes may cause temporary irritation. | |
| Information on toxicological effects | | |
| Acute toxicity | Harmful if swallowed. | |

| I-Hexylresorcinol (CAS 136-77-6) Acute | | |
|--|---|---|
| Acute | | |
| Addio | | |
| Oral | | |
| LD50 | Guinea pig | 475 mg/kg |
| | Rabbit | > 750 mg/kg |
| | Rat | 550 mg/kg |
| Other | | |
| LD50 | Mouse | 200 mg/kg |
| * Estimates for product may be | e based on additional component data not sho | wn. |
| Skin corrosion/irritation | Prolonged skin contact may cause temporary irritation. | |
| Serious eye damage/eye rritation | Direct contact with eyes may cause temporal | ry irritation. |
| Respiratory or skin sensitization | I | |
| Respiratory sensitization | Not available. | |
| Skin sensitization | This product is not expected to cause skin sensitization. | |
| Germ cell mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. | |
| Carcinogenicity | This product is not considered to be a carcine | ogen by IARC, ACGIH, NTP, or OSHA. |
| US. OSHA Specifically Regu Not listed. | lated Substances (29 CFR 1910.1001-1050) | |
| Reproductive toxicity | This product is not expected to cause reprod | luctive or developmental effects. |
| Specific target organ toxicity - | Not classified. | |
| single exposure | | |
| Specific target organ toxicity - epeated exposure | Not classified. | |
| Aspiration hazard | Not available. | |
| 12. Ecological information | | |
| Ecotoxicity | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment | |
| Persistence and degradability | No data is available on the degradability of the | nis product. |
| Bioaccumulative potential | Not available. | |
| Partition coefficient n-octan 3.45 | ol / water (log Kow) | |
| Mobility in soil | No data available. | |
| Other adverse effects | | ozone depletion, photochemical ozone creation ng potential) are expected from this component. |
| 13. Disposal consideratior | าร | |
| Disposal instructions | Collect and reclaim or dispose in sealed cont and its container must be disposed of as haz sewers/water supplies. Do not contaminate p | tainers at licensed waste disposal site. This material cardous waste. Do not allow this material to drain inte ponds, waterways or ditches with chemical or used accordance with local/regional/national/international |
| _ocal disposal regulations | Dispose in accordance with all applicable reg | gulations. |
| lazardous waste code | | ssion between the user, the producer and the waste |
| Waste from residues / unused products | | ons. Empty containers or liners may retain some iner must be disposed of in a safe manner (see: |
| Contaminated packaging | | roved waste handling site for recycling or disposal. t residue, follow label warnings even after container |

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed. SARA 304 Emergency release notification Not regulated. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous Yes chemical SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. Safe Drinking Water Act Not regulated. (SDWA) US state regulations **US. Massachusetts RTK - Substance List** Not regulated. US. New Jersey Worker and Community Right-to-Know Act Not regulated. US. Pennsylvania RTK - Hazardous Substances Not regulated. **US. Rhode Island RTK** Not regulated. **US. California Proposition 65** California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. International Inventories Country(s) or region Inventory name Australia Australian Inventory of Chemical Substances (AICS) Canada Domestic Substances List (DSL) Non-Domestic Substances List (NDSL) Canada China Inventory of Existing Chemical Substances in China (IECSC)

Yes

Yes

No

Yes

On inventory (yes/no)*

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

| Issue date | 11-04-2014 |
|---------------|--|
| Revision date | 11-04-2014 |
| Version # | 02 |
| NFPA ratings | Health: 1 Flammability: 0 Instability: 0 |
| Disclaimer | The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc. |
| | Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals. |
| | This Safety Data Sheet (SDS) is intended only for use with Chem Service, Inc. products and should not be relied on for use with materials from any other supplier even if the chemical name(s) on the product are identical! Whenever using an SDS for a solution or mixture the user should refer to the SDS for every component of the solution or mixture. Chem Service warrants that this SDS is based upon the most current information available to Chem Service at the time it was last revised. THIS WARRANTY IS EXCLUSIVE, AND CHEM SERVICE, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. This SDS is provided gratis and CHEM SERVICE, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR CONTINGENT DAMAGES. |
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