

## SAFETY DATA SHEET

## 1. Identification

|                                                        |                                                           |                 |
|--------------------------------------------------------|-----------------------------------------------------------|-----------------|
| Product identifier                                     | Orcinol monohydrate                                       |                 |
| Other means of identification                          |                                                           |                 |
| Item                                                   | NG-17389                                                  |                 |
| 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<br>West Chester, PA 19380<br>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                              |
|                       | Skin corrosion/irritation                       | Category 2                              |
|                       | Serious eye damage/eye irritation               | Category 2A                             |
|                       | Specific target organ toxicity, single exposure | Category 3 respiratory tract irritation |
| Environmental hazards | Not classified.                                 |                                         |
| OSHA defined hazards  | Not classified.                                 |                                         |
| Label elements        |                                                 |                                         |



|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal word                               | Warning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Hazard statement                          | Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Precautionary statement                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Prevention                                | Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear eye protection/face protection. Wear protective gloves.                                                                                                                                                                                                                                                                                                      |
| Response                                  | If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. |
| Storage                                   | Store in a well-ventilated place. Keep container tightly closed. Store locked up.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Disposal                                  | Dispose of contents/container in accordance with local/regional/national/international regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Hazard(s) not otherwise classified (HNOC) | None known.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Supplemental information                  | None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

### 3. Composition/information on ingredients

#### Substances

| Chemical name       | Common name and synonyms | CAS number | %   |
|---------------------|--------------------------|------------|-----|
| Orcinol monohydrate |                          | 6153-39-5  | 100 |

### 4. First-aid measures

|                                                                               |                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>                                                             | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.                                                                                                  |
| <b>Skin contact</b>                                                           | Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.                                                                                |
| <b>Eye contact</b>                                                            | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.                                                |
| <b>Ingestion</b>                                                              | Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.                                                                                                |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain.                                                               |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.                                                                                                           |
| <b>General information</b>                                                    | If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. |

### 5. Fire-fighting measures

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

### 6. Accidental release measures

|                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. 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.                                                                                                                           |
| <b>Methods and materials for containment and cleaning up</b>               | <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p> |
| <b>Environmental precautions</b>                                           | Avoid discharge into drains, water courses or onto the ground.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

### 7. Handling and storage

|                                                                     |                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautions for safe handling</b>                                | Provide adequate ventilation. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).                                                                                                                                             |

## 8. Exposure controls/personal protection

|                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Occupational exposure limits</b>                                          | No exposure limits noted for ingredient(s).                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Biological limit values</b>                                               | No biological exposure limits noted for the ingredient(s).                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Appropriate engineering controls</b>                                      | 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. Eye wash facilities and emergency shower must be available when handling this product. |
| <b>Individual protection measures, such as personal protective equipment</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Eye/face protection</b>                                                   | Face shield is recommended. Wear safety glasses with side shields (or goggles).                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Skin protection</b>                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Hand protection</b>                                                       | Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Other</b>                                                                 | Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Respiratory protection</b>                                                | In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with organic vapor cartridge.                                                                                                                                                                                                                                                                                                                                                          |
| <b>Thermal hazards</b>                                                       | Wear appropriate thermal protective clothing, when necessary.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>General hygiene considerations</b>                                        | Keep away from food and drink. 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

|                                                     |                          |
|-----------------------------------------------------|--------------------------|
| <b>Appearance</b>                                   |                          |
| <b>Physical state</b>                               | Solid.                   |
| <b>Form</b>                                         | Solid. Crystalline Solid |
| <b>Color</b>                                        | White                    |
| <b>Odor</b>                                         | Not available.           |
| <b>Odor threshold</b>                               | Not available.           |
| <b>pH</b>                                           | Not available.           |
| <b>Melting point/freezing point</b>                 | Not available.           |
| <b>Initial boiling point and boiling range</b>      | Not available.           |
| <b>Flash point</b>                                  | Not available.           |
| <b>Evaporation rate</b>                             | Not available.           |
| <b>Flammability (solid, gas)</b>                    | Not available.           |
| <b>Upper/lower flammability or explosive limits</b> |                          |
| <b>Flammability limit - lower (%)</b>               | Not available.           |
| <b>Flammability limit - upper (%)</b>               | Not available.           |
| <b>Explosive limit - lower (%)</b>                  | Not available.           |
| <b>Explosive limit - upper (%)</b>                  | Not available.           |
| <b>Vapor pressure</b>                               | Not available.           |
| <b>Vapor density</b>                                | Not available.           |
| <b>Relative density</b>                             | 1.29 g/cm <sup>3</sup>   |
| <b>Solubility(ies)</b>                              |                          |
| <b>Solubility (water)</b>                           | Not available.           |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.           |
| <b>Auto-ignition temperature</b>                    | Not available.           |
| <b>Decomposition temperature</b>                    | Not available.           |
| <b>Viscosity</b>                                    | Not available.           |

## Other information

|                             |                |
|-----------------------------|----------------|
| <b>Explosive properties</b> | Not explosive. |
| <b>Molecular formula</b>    | C7H8O2.H2O     |
| <b>Oxidizing properties</b> | Not oxidizing. |

## 10. Stability and reactivity

|                                           |                                                                                               |
|-------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.                                                   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Contact with incompatible materials.                                                          |
| <b>Incompatible materials</b>             | Strong oxidizing agents.                                                                      |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.                                                |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |                                                 |
|---------------------|-------------------------------------------------|
| <b>Inhalation</b>   | May cause irritation to the respiratory system. |
| <b>Skin contact</b> | Causes skin irritation.                         |
| <b>Eye contact</b>  | Causes serious eye irritation.                  |
| <b>Ingestion</b>    | Harmful if swallowed.                           |

|                                                                                     |                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symptoms related to the physical, chemical and toxicological characteristics</b> | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Information on toxicological effects

|                                                                           |                                                                                                                                                                                      |
|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Acute toxicity</b>                                                     | In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and central nervous system effects. Harmful if swallowed. May cause respiratory irritation. |
| <b>Skin corrosion/irritation</b>                                          | Causes skin irritation.                                                                                                                                                              |
| <b>Serious eye damage/eye irritation</b>                                  | Causes serious eye irritation.                                                                                                                                                       |
| <b>Respiratory or skin sensitization</b>                                  |                                                                                                                                                                                      |
| <b>Respiratory sensitization</b>                                          | Not a respiratory sensitizer.                                                                                                                                                        |
| <b>Skin sensitization</b>                                                 | This product is not expected to cause skin sensitization.                                                                                                                            |
| <b>Germ cell mutagenicity</b>                                             | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.                                                                     |
| <b>Carcinogenicity</b>                                                    | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.                                                                                                      |
| <b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b> |                                                                                                                                                                                      |
|                                                                           | Not listed.                                                                                                                                                                          |
| <b>Reproductive toxicity</b>                                              | This product is not expected to cause reproductive or developmental effects.                                                                                                         |
| <b>Specific target organ toxicity - single exposure</b>                   | May cause respiratory irritation.                                                                                                                                                    |
| <b>Specific target organ toxicity - repeated exposure</b>                 | Not classified.                                                                                                                                                                      |
| <b>Aspiration hazard</b>                                                  | Not an aspiration hazard.                                                                                                                                                            |

## 12. Ecological information

|                                      |                                                                                                                                                                                                    |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ecotoxicity</b>                   | 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. |
| <b>Persistence and degradability</b> | No data is available on the degradability of this product.                                                                                                                                         |
| <b>Bioaccumulative potential</b>     | No data available.                                                                                                                                                                                 |
| <b>Mobility in soil</b>              | No data available.                                                                                                                                                                                 |
| <b>Other adverse effects</b>         | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.            |

### 13. Disposal considerations

|                                              |                                                                                                                                                                                                                  |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal instructions</b>                 | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.                         |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.                                                                                                                                                           |
| <b>Hazardous waste code</b>                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.                                                                                                   |
| <b>Waste from residues / unused products</b> | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| <b>Contaminated packaging</b>                | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.       |

### 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

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

### 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
One or more components are not listed on TSCA.

#### **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 chemical** No

#### **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 (SDWA)** Not regulated.

## US state regulations

### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

### 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. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

### 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                                                         | On inventory (yes/no)* |
|-----------------------------|------------------------------------------------------------------------|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada                      | Domestic Substances List (DSL)                                         | No                     |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                     |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)                                          | No                     |
| 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                          | No                     |

\*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   | 07-21-2016                                     |
| Version #    | 01                                             |
| NFPA ratings | Health: 2<br>Flammability: 0<br>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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