SECTION 1: Identification

1.1. Identification

Product form: Substance
Substance name: 3,5-Dichlorophenol
CAS No: 591-35-5
Product code: 2601-5-35
Formula: C6H4Cl2O
Other means of identification: MFCD00002259

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

Use of the substance/mixture: Laboratory chemicals
Manufacture of substances
Scientific research and development

1.3. Details of the supplier of the safety data sheet

SynQuest Laboratories, Inc.
P.O. Box 309
Alachua, FL 32615 - United States of America
T (386) 462-0788 - F (386) 462-7097
info@synquestlabs.com - www.synquestlabs.com

1.4. Emergency telephone number

Emergency number: (844) 523-4086 (3E Company - Account 10069)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Classification (GHS-US)
Acute Tox. 4 (Oral) H302 - Harmful if swallowed
Acute Tox. 3 (Dermal) H311 - Toxic in contact with skin
Skin Corr. 1B H314 - Causes severe skin burns and eye damage
Eye Dam. 1 H318 - Causes serious eye damage
STOT SE 3 H335 - May cause respiratory irritation
Aquatic Acute 2 H401 - Toxic to aquatic life
Aquatic Chronic 2 H411 - Toxic to aquatic life with long lasting effects

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US): 

GHS05  GHS06  GHS07  GHS09

Signal word (GHS-US): Danger
Hazard statements (GHS-US): H302 - Harmful if swallowed
H311 - Toxic in contact with skin
H314 - Causes severe skin burns and eye damage
H335 - May cause respiratory irritation
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US): P260 - Do not breathe dust, mist, spray
P264 - Wash skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301+P312 - If swallowed: Call a POISON CENTER or doctor/physician if you feel unwell
P303+P361+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
P302+P352 - If on skin: Wash with plenty of soap and water
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
3,5-Dichlorophenol
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P304+P340 - If inhaled: Remove person to fresh air and keep 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
P321 - Specific treatment (see supplemental first aid instructions on this label)
P330 - Rinse mouth
P361 - Take off immediately all contaminated clothing
P363 - Wash contaminated clothing before reuse
P391 - Collect spillage
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,5-Dichlorophenol</td>
<td>(CAS No): 591-35-5</td>
<td>&lt;= 100</td>
<td>Acute Tox. 4 (Oral), H302&lt;br&gt;Acute Tox. 3 (Dermal), H311&lt;br&gt;Skin Corr. 1B, H314&lt;br&gt;Eye Dam. 1, H318&lt;br&gt;STOT SE 3, H335&lt;br&gt;Aquatic Acute 2, H401&lt;br&gt;Aquatic Chronic 2, H411</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

3.2. Mixture
Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.

First-aid measures after skin contact: Wash with plenty of soap and water. Get immediate medical advice/attention.

First-aid measures after eye contact: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid measures after ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media


5.2. Special hazards arising from the substance or mixture


5.3. Advice for firefighters

Firefighting instructions: In case of fire: Evacuate area.

Protection during firefighting: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**General measures**
Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.

- **For non-emergency personnel**
  - Emergency procedures
  Only qualified personnel equipped with suitable protective equipment may intervene.

- **For emergency responders**
  - Protective equipment
  Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions
Avoid release to the environment. Notify authorities if product enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

- **For containment**
  Stop leak if safe to do so.

- **Methods for cleaning up**
  Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.

- **Other information**
  For disposal of solid materials or residues refer to section 13: "Disposal considerations".

#### 6.4. Reference to other sections
No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- **Precautions for safe handling**
  Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.

- **Hygiene measures**
  Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

- **Technical measures**
  Comply with applicable regulations.

- **Storage conditions**
  Keep container closed when not in use.

- **Incompatible materials**
  Refer to Section 10 on Incompatible Materials.

- **Storage area**
  Store in dry, cool, well-ventilated area.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters
No additional information available

#### 8.2. Exposure controls

- **Appropriate engineering controls**
  Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

- **Hand protection**

- **Eye protection**
  Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.

- **Skin and body protection**
  Wear suitable protective clothing.

- **Respiratory protection**

- **Other information**

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

- **Physical state**
  Solid

- **Color**
  No data available

- **Odor**
  No data available

- **Odor threshold**
  No data available

- **pH**
  No data available

- **Melting point**
  68 °C

- **Freezing point**
  No data available
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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Boiling point : 122 °C (@ 8 mm Hg)
Flash point : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : No data available
Explosion limits : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Vapor pressure : No data available
Relative density : No data available
Relative vapor density at 20 °C : No data available
Molecular mass : 163 g/mol
Solubility : No data available
Log Pow : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available

10.2. Chemical stability
The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions
No additional information available

10.4. Conditions to avoid
Keep away from heat, sparks and flame.

10.5. Incompatible materials
Acid chlorides. Acid anhydrides. Strong oxidizing agents.

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed. Dermal: Toxic in contact with skin.
Skin corrosion/irritation : Causes severe skin burns and eye damage.
Serious eye damage/irritation : Causes serious eye damage.
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : May cause respiratory irritation.
Specific target organ toxicity (repeated exposure) : Not classified
Aspiration hazard : Not classified
# 3,5-Dichlorophenol

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<table>
<thead>
<tr>
<th>SECTION 12: Ecological information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>12.1.  Toxicity</strong></td>
</tr>
<tr>
<td>No additional information available</td>
</tr>
</tbody>
</table>

| **12.2.  Persistence and degradability** |
| No additional information available |

| **12.3.  Bioaccumulative potential** |
| No additional information available |

| **12.4.  Mobility in soil** |
| No additional information available |

| **12.5.  Other adverse effects** |
| No additional information available |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

- **Waste treatment methods**: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
- **Waste disposal recommendations**: Dispose of contents/container in accordance with licensed collector's sorting instructions.
- **Additional information**: Recycle the material as far as possible.

## SECTION 14: Transport information

**Department of Transportation (DOT)**

- **In accordance with DOT**
- **Transport document description**: UN2020 Chlorophenols, solid, 6.1, III
- **UN-No.(DOT)**: UN2020
- **Proper Shipping Name (DOT)**: Chlorophenols, solid
- **Transport hazard class(es) (DOT)**: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
- **Hazard labels (DOT)**: 6.1 - Poison

- **Packing group (DOT)**: III - Minor Danger
- **Dangerous for the environment**: Yes
- **Marine pollutant**: Yes

- **DOT Packaging Non Bulk (49 CFR 173.xxx)**: 213
- **DOT Packaging Bulk (49 CFR 173.xxx)**: 240
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DOT Special Provisions (49 CFR 172.102)

- IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HQ1, 11HQ2, 21HQ, 31HQ1 and 31HQ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).
- IP3 - Flexible IBCs must be silt-proof and water-resistant or must be fitted with a silt-proof and water-resistant liner.
- T4 - 2.65 178.274(d)(2) Normal............. 178.275(d)(3)
- T1 - 1.5 178.274(d)(2) Normal............. 178.275(d)(2)
- TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
- TP3 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx)

- 153

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)

- 100 kg

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)

- 200 kg

DOT Vessel Stowage Location

- A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.

DOT Packaging Exceptions (49 CFR 173.xxx)

- No supplementary information available.

TDG

No additional information available.

Transport by sea

- UN-No. (IMDG): 2020
- Proper Shipping Name (IMDG): CHLOROPHENOLS, SOLID
- Class (IMDG): 6.1 - Toxic substances
- Packing group (IMDG): III - substances presenting low danger

Air transport

- UN-No. (IATA): 2020
- Proper Shipping Name (IATA): Chlorophenols, solid
- Class (IATA): 6.1 - Toxic Substances
- Packing group (IATA): III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

3,5-Dichlorophenol (591-35-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

3,5-Dichlorophenol (591-35-5)

Listed on the Canadian NDSL (Non-Domestic Substances List)

<table>
<thead>
<tr>
<th>WHMIS Classification</th>
<th>Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Class E - Corrosive Material</td>
</tr>
</tbody>
</table>

01/03/2017 EN (English US) SDS ID: 2601535 6/7
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EU-Regulations
No additional information available

National regulations

<table>
<thead>
<tr>
<th>3,5-Dichlorophenol (591-35-5)</th>
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</thead>
<tbody>
<tr>
<td>Listed on the Japanese ENCS (Existing &amp; New Chemical Substances) inventory</td>
</tr>
<tr>
<td>Listed on the Korean ECL (Existing Chemicals List)</td>
</tr>
<tr>
<td>Listed on NZIoC (New Zealand Inventory of Chemicals)</td>
</tr>
<tr>
<td>Listed on INSQ (Mexican national Inventory of Chemical Substances)</td>
</tr>
</tbody>
</table>

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Full text of H-phrases:

<table>
<thead>
<tr>
<th>Acute Tox. 3 (Dermal)</th>
<th>Acute toxicity (dermal) Category 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral) Category 4</td>
</tr>
<tr>
<td>Aquatic Acute 2</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 2</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 2</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation Category 1</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td>Skin corrosion/irritation Category 1B</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
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</table>

NFPA health hazard

3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

NFPA fire hazard

0 - Materials that will not burn.

NFPA reactivity

0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS III Rating

Health

3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given.

* Chronic (long-term) health effects may result from repeated overexposure

Flammability

0 Minimal Hazard - Materials that will not burn

Physical

0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.