# SAFETY DATA SHEET

## Section 1. Identification

<table>
<thead>
<tr>
<th>Product name</th>
<th>H&amp;C® INFUSION™ Reactive Concrete Stain Potterswheel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code</td>
<td>40.10204-</td>
</tr>
<tr>
<td>Other means of identification</td>
<td>Not available.</td>
</tr>
<tr>
<td>Product type</td>
<td>Liquid.</td>
</tr>
</tbody>
</table>

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

Paint or paint related material.

### Manufacturer

H&C Products Group
101 W. Prospect Avenue
Cleveland, OH 44115

### Emergency telephone number of the company

- **US/Canada:** (800) 424-9300
- **Mexico:** CHEMTREC Mexico 01-800-681-9531. Available 24 hours and 365 days per year

### Product Information Telephone Number

- **US/Canada:** (800) 867-8246
- **Mexico:** 01-800-71-73-123 / (52) 53-33-15-01

### Regulatory Information Telephone Number

- **US/Canada:** (216) 566-2902
- **Mexico:** 01-800-71-73-123 / (52) 53-33-15-01

### Transportation Emergency Telephone Number

- **US/Canada:** (800) 424-9300
- **Mexico:** SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year

## Section 2. Hazards identification

### OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Classification of the substance or mixture

- ACUTE TOXICITY (oral) - Category 4
- ACUTE TOXICITY (inhalation) - Category 3
- SKIN CORROSION/IRRITATION - Category 1
- SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
- RESPIRATORY SENSITIZATION - Category 1
- SKIN SENSITIZATION - Category 1
- GERM CELL MUTAGENICITY - Category 1
- CARCINOGENICITY - Category 1A
- TOXIC TO REPRODUCTION (Fertility) - Category 1B
- TOXIC TO REPRODUCTION (Unborn child) - Category 1B
- SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 4.5%
Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 29%
Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 29%

### GHS label elements
Section 2. Hazards identification

Hazard pictograms:

![Signal word]

**Signal word**: Danger

**Hazard statements**: Toxic if inhaled.
Harmful if swallowed.
Causes severe skin burns and eye damage.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
May cause genetic defects.
May cause cancer.
May damage fertility or the unborn child.
Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

**General**: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

**Prevention**: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wear respiratory protection. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

**Response**: Get medical attention if you feel unwell. If exposed or concerned: Get medical attention. IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. If experiencing respiratory symptoms: Call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

**Storage**: Store locked up.

**Disposal**: Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental label elements**: WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

Hazard not otherwise classified: None known.

Section 3. Composition/information on ingredients

**Substance/mixture**: Mixture

**Other means of identification**: Not available.

**CAS number/other identifiers**
Section 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>% by weight</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ferric Chloride</td>
<td>≥10 - ≤25</td>
<td>7705-08-0</td>
</tr>
<tr>
<td>Sodium Dichromate</td>
<td>≤14</td>
<td>10588-01-9</td>
</tr>
<tr>
<td>Hydrochloric acid</td>
<td>≤5</td>
<td>7647-01-0</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

**Description of necessary first aid measures**

**Eye contact**: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

**Inhalation**: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In the event of any complaints or symptoms, avoid further exposure.

**Skin contact**: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion**: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Most important symptoms/effects, acute and delayed**

**Potential acute health effects**

**Eye contact**: Causes serious eye damage.

**Inhalation**: Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin contact**: Causes severe burns. May cause an allergic skin reaction.

**Ingestion**: Harmful if swallowed.

**Over-exposure signs/symptoms**
Section 4. First aid measures

Protection of first-aiders:
No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are present, remove to fresh air. If inhaled, give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Notes to physician:
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Indication of immediate medical attention and special treatment needed, if necessary:
Specific treatments:
No specific treatment.

Skin contact:
Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
reduced fetal weight
increase in fetal deaths
skeletal malformations

Inhalation:
Adverse symptoms may include the following:
wheezing and breathing difficulties
asthma
reduced fetal weight
increase in fetal deaths
skeletal malformations

Ingestion:
Adverse symptoms may include the following:
stomach pains
reduced fetal weight
increase in fetal deaths
skeletal malformations

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media:
Suitable extinguishing media:
Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media:
None known.

Specific hazards arising from the chemical:
In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products:
Decomposition products may include the following materials:
halogenated compounds
metal oxide/oxides

Special protective actions for fire-fighters:
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters:
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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Date of previous issue: 7/8/2019
Version: 6

H&C® INFUSION™ Reactive Concrete Stain
Potterswheel

SHW-85-NA-GHS-US
### Section 8. Exposure controls/personal protection

#### Control parameters

**Occupational exposure limits (OSHA United States)**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS #</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ferric Chloride</td>
<td>7705-08-0</td>
<td>ACGIH TLV (United States, 3/2019). TWA: 1 mg/m³, (as Fe) 8 hours.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH REL (United States, 10/2016). TWA: 1 mg/m³, (as Fe) 10 hours.</td>
</tr>
<tr>
<td>Sodium Dichromate</td>
<td>10588-01-9</td>
<td>ACGIH TLV (United States, 3/2019). TWA: 0.0002 mg/m³, (measured as Cr) 8 hours.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL: 0.0005 mg/m³, (measured as Cr) 15 minutes. Form: Inhaled fraction</td>
</tr>
<tr>
<td>Hydrochloric acid</td>
<td>7647-01-0</td>
<td>NIOSH REL (United States, 10/2016). TWA: 0.0002 mg/m³ 8 hours.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA PEL (United States, 5/2018). TWA: 0.005 mg/m³, (as Cr) 8 hours.</td>
</tr>
</tbody>
</table>

**Occupational exposure limits (Canada)**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS #</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ferric chloride</td>
<td>7705-08-0</td>
<td>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1 mg/m³, (as Fe) 8 hours.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CA British Columbia Provincial (Canada, 5/2019). TWA: 1 mg/m³, (as Fe) 8 hours.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL: 2 mg/m³, (as Fe) 15 minutes.</td>
</tr>
<tr>
<td>Sodium dichromate</td>
<td>10588-01-9</td>
<td>CA Quebec Provincial (Canada, 1/2014). TWAEV: 1 mg/m³, (as Fe) 8 hours.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CA Ontario Provincial (Canada, 1/2018). TWA: 1 mg/m³, (as Fe) 8 hours.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CA Saskatchewan Provincial (Canada, 7/2013). STEL: 3 mg/m³, (measured as Fe) 15 minutes.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CA Ontario Provincial (Canada, 1/2018). TWA: 0.05 mg/m³, (as Cr) 8 hours. Form: Soluble</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 0.05 mg/m³, (as Cr) 8 hours.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 0.025 mg/m³, (as Cr, Total) 8 hours. C: 0.1 mg/m³, (as Cr, Total)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CA Quebec Provincial (Canada, 1/2014). Skin sensitizer. TWAEV: 0.05 mg/m³, (as Cr) 8 hours.</td>
</tr>
</tbody>
</table>
**Section 8. Exposure controls/personal protection**

**Eye/face protection:**
- Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Appropriate engineering controls:**
- Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls:**
- Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Hygiene measures:**
- Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:**
- Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

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**Hydrochloric acid 10,2 N**
- CAS: 7647-01-0
- STEL: 0.15 mg/m³, (measured as Cr) 15 minutes.
- TWA: 0.05 mg/m³, (measured as Cr) 8 hours.

**Occupational exposure limits (Mexico)**

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS #</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ferric Chloride</td>
<td>7705-08-0</td>
<td>NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 1 mg/m³, (as Fe) 8 hours.</td>
</tr>
<tr>
<td>Sodium Dichromate</td>
<td>10588-01-9</td>
<td>NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 0.05 mg/m³ 8 hours. Form: soluble in water</td>
</tr>
<tr>
<td>Hydrochloric acid</td>
<td>7647-01-0</td>
<td>NOM-010-STPS-2014 (Mexico, 4/2016). CEIL: 2 ppm</td>
</tr>
</tbody>
</table>

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**Skin protection**
Section 8. Exposure controls/personal protection

- Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

- Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

- Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

- Respiratory protection: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

- Appearance
  - Physical state: Liquid.
  - Color: Not available.
  - Odor: Not available.
  - Odor threshold: Not available.
  - pH: 2
  - Melting point/freezing point: Not available.
  - Boiling point/boiling range: 93°C (199.4°F)
  - Flash point: Closed cup: >93.3°C (>199.9°F) [Pensky-Martens Closed Cup]
  - Evaporation rate: 0.09 (butyl acetate = 1)
  - Flammability (solid, gas): Not available.
  - Lower and upper explosive (flammable) limits: Not available.
  - Vapor pressure: 2.3 kPa (17.5 mm Hg) [at 20°C]
  - Vapor density: 1 [Air = 1]
  - Relative density: 1.34
  - Solubility: Not available.
  - Partition coefficient: n-octanol/water: Not available.
  - Auto-ignition temperature: Not available.
  - Decomposition temperature: Not available.
  - Viscosity: Kinematic (40°C (104°F)): >0.205 cm²/s (>20.5 cSt)
  - Molecular weight: Not applicable.
  - Aerosol product: Not available.
  - Heat of combustion: 0 kJ/g
Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: The product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: No specific data.

Incompatible materials: Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ferric Chloride</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>316 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric acid</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>0.5 minutes 5 mg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Human</td>
<td>-</td>
<td>24 hours 4 %</td>
<td>-</td>
</tr>
</tbody>
</table>

Sensitization
Not available.

Mutagenicity
Not available.

Carcinogenicity
Not available.

Classification

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>OSHA</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Dichromate</td>
<td>+</td>
<td>1</td>
<td>Known to be a human carcinogen.</td>
</tr>
<tr>
<td>Hydrochloric acid</td>
<td>-</td>
<td>3</td>
<td>-</td>
</tr>
</tbody>
</table>

Reproductive toxicity
Not available.

Teratogenicity
Not available.

Specific target organ toxicity (single exposure)
# Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Dichromate</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>Hydrochloric acid</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation</td>
</tr>
</tbody>
</table>

## Specific target organ toxicity (repeated exposure)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Dichromate</td>
<td>Category 1</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

### Aspiration hazard

Not available.

### Information on the likely routes of exposure

**Inhalation**

Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Harmful if swallowed.

**Eye contact**

Causes serious eye damage.

**Skin contact**

Causes severe burns. May cause an allergic skin reaction.

**Ingestion**

Harmful if swallowed.

### Potential acute health effects

**Eye contact**

Adverse symptoms may include the following:
- Pain
- Watering
- Redness

**Inhalation**

Adverse symptoms may include the following:
- Wheezing and breathing difficulties
- Asthma
- Reduced fetal weight
- Increase in fetal deaths
- Skeletal malformations

**Skin contact**

Adverse symptoms may include the following:
- Pain or irritation
- Redness
- Blistering may occur
- Reduced fetal weight
- Increase in fetal deaths
- Skeletal malformations

**Ingestion**

Adverse symptoms may include the following:
- Stomach pains
- Reduced fetal weight
- Increase in fetal deaths
- Skeletal malformations

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**

- Adverse symptoms may include the following:
  - Pain
  - Watering
  - Redness

**Inhalation**

- Adverse symptoms may include the following:
  - Wheezing and breathing difficulties
  - Asthma
  - Reduced fetal weight
  - Increase in fetal deaths
  - Skeletal malformations

**Skin contact**

- Adverse symptoms may include the following:
  - Pain or irritation
  - Redness
  - Blistering may occur
  - Reduced fetal weight
  - Increase in fetal deaths
  - Skeletal malformations

**Ingestion**

- Adverse symptoms may include the following:
  - Stomach pains
  - Reduced fetal weight
  - Increase in fetal deaths
  - Skeletal malformations

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Potential immediate effects**

Not available.
Section 11. Toxicological information

**Potential delayed effects** : Not available.

**Long term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Potential chronic health effects**

Not available.

**General**

Causes damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity**

May cause cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity**

May cause genetic defects.

**Teratogenicity**

May damage the unborn child.

**Developmental effects**

No known significant effects or critical hazards.

**Fertility effects**

May damage fertility.

**Numerical measures of toxicity**

**Acute toxicity estimates**

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>519.4 mg/kg</td>
</tr>
<tr>
<td>Dermal</td>
<td>6791.3 mg/kg</td>
</tr>
<tr>
<td>Inhalation (vapors)</td>
<td>3.09 mg/l</td>
</tr>
</tbody>
</table>

Section 12. Ecological information

**Toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ferric Chloride</td>
<td>Acute EC50 9600 µg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 644.39 µg/l Fresh water</td>
<td>Crustaceans - Stenocypris major - Adult</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 20.26 mg/l Fresh water</td>
<td>Fish - Lepomis macrochirus</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 0.7 mg/l Fresh water</td>
<td>Daphnia - Daphnia pulex - Neonate</td>
<td>21 days</td>
</tr>
<tr>
<td>Sodium Dichromate</td>
<td>Acute LC50 32.3 µg/l Fresh water</td>
<td>Crustaceans - Simocephalus vetulus</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 0.0113 µg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 4000 µg/l Fresh water</td>
<td>Fish - Salmo salar</td>
<td>4 days</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 0.0125 mg/l Fresh water</td>
<td>Daphnia - Daphnia magna - Neonate</td>
<td>21 days</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 1280 µg/l Fresh water</td>
<td>Fish - Pimephales promelas - Embryo</td>
<td>32 days</td>
</tr>
<tr>
<td>Hydrochloric acid</td>
<td>Acute LC50 240000 µg/l Marine water</td>
<td>Crustaceans - Carcinus maenas - Adult</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 282 ppm Fresh water</td>
<td>Fish - Gambusia affinis - Adult</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

**Persistence and degradability**

Not available.

**Bioaccumulative potential**

Date of issue/Date of revision : 11/29/2019  Date of previous issue : 7/8/2019  Version : 6 11/15

SHW-85-NA-GHS-US
Section 12. Ecological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ferric Chloride</td>
<td>-</td>
<td>20</td>
<td>low</td>
</tr>
</tbody>
</table>

**Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

Section 13. Disposal considerations

**Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

<table>
<thead>
<tr>
<th></th>
<th>DOT Classification</th>
<th>TDG Classification</th>
<th>Mexico Classification</th>
<th>IATA</th>
<th>IMDG</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>UN3066</td>
<td>UN3066</td>
<td>UN3066</td>
<td>UN3066</td>
<td>UN3066</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>PAINT</td>
<td>PAINT</td>
<td>PAINT</td>
<td>PAINT</td>
<td>PAINT</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Packing group</td>
<td>III</td>
<td>III</td>
<td>III</td>
<td>III</td>
<td>III</td>
</tr>
<tr>
<td>Additional information</td>
<td>-</td>
<td>Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8).</td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERG No.</td>
<td>153</td>
<td>ERG No.</td>
<td>153</td>
<td>ERG No.</td>
<td>153</td>
</tr>
</tbody>
</table>

**Environmental hazards**

No.

**Additional information**

- Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8).

**Emergency schedules**

F-A, S-B
Section 14. Transport information

Special precautions for user: Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to Annex II of MARPOL and the IBC Code: Not available.

Proper shipping name: Not available.
Ship type: Not available.
Pollution category: Not available.

Section 15. Regulatory information

SARA 313
SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

International regulations

International lists:
- Australia inventory (AICS): Not determined.
- China inventory (IECSC): Not determined.
- Japan inventory (ENCS): Not determined.
- Japan inventory (ISHL): Not determined.
- Korea inventory (KECI): Not determined.
- New Zealand Inventory of Chemicals (NZIoC): Not determined.
- Philippines inventory (PICCS): Not determined.
- Taiwan Chemical Substances Inventory (TCSI): Not determined.
- Thailand inventory: Not determined.
- Turkey inventory: Not determined.
- Vietnam inventory: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Physical hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification
Section 16. Other information

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACUTE TOXICITY (oral) - Category 4</td>
<td>Calculation method</td>
</tr>
<tr>
<td>ACUTE TOXICITY (inhalation) - Category 3</td>
<td>Calculation method</td>
</tr>
<tr>
<td>SKIN CORROSION/IRRITATION - Category 1</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>RESPIRATORY SENSITIZATION - Category 1</td>
<td>Calculation method</td>
</tr>
<tr>
<td>SKIN SENSITIZATION - Category 1</td>
<td>Calculation method</td>
</tr>
<tr>
<td>GERM CELL MUTAGENICITY - Category 1</td>
<td>Calculation method</td>
</tr>
<tr>
<td>CARCINOGENICITY - Category 1A</td>
<td>Calculation method</td>
</tr>
<tr>
<td>TOXIC TO REPRODUCTION (Fertility) - Category 1B</td>
<td>Calculation method</td>
</tr>
<tr>
<td>TOXIC TO REPRODUCTION (Unborn child) - Category 1B</td>
<td>Calculation method</td>
</tr>
<tr>
<td>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

History

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Date of previous issue : 7/8/2019
Version : 6

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973
as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.