SAFETY DATA SHEET

40.10201-

Section 1. Identification

Product name	: H&C® INFUSION™ Reactive Concrete Stain Rusted Fence		
Product code	: 40.10201-		
Other means of identification	Not available.		
Product type	: Liquid.		
Relevant identified uses of the	ne substance or mixture and uses advised against		
Paint or paint related material.			
Manufacturer	: H&C Products Group 101 W. Prospect Avenue Cleveland, OH 44115		
National contact	: H&C Products Groups 180 Brunel Road Mississauga, Ontario L4Z 1T5 Canada		
Emergency telephone number of the company	: US/Canada: (800) 424-9300 Mexico: CHEMTREC Mexico 800-681-9531. Available 24 hours and 365 days per year		
Product Information Telephone Number	: US/Canada: (800) 867-8246 Mexico: 800-717-3123 / 55-5333-1501		
Transportation Emergency Telephone Number	: US/Canada: (800) 424-9300 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year		

Section 2. Hazards identification

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 - Category 1B
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 1.5% (oral), 20% (dermal), 20% (inhalation)
GHS label elements	
Hazard pictograms	
Signal word	: Danger

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Section 2. Hazards identification

Hazard statements	 Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. 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, protective clothing and eye or face protection. 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 thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or 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 doctor.
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.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Ferric Chloride	9.5	7705-08-0
Sodium Dichromate	9.5	10588-01-9
Manganese Dichloride Tetrahydrate	4.5	13446-34-9
Ferrous Chloride	4.5	7758-94-3
Hydrochloric acid	1.5	7647-01-0

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 and hence require reporting in this section.

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Section 3. Composition/information on ingredients

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. 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/e	fects, acute and delayed
Potential acute health effec	t <u>s</u>
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/symp	<u>ioms</u>
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

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Section 4. First aid measures

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			
Indication of immediate me	dical attention and special treatment needed, if necessary			
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 			
Specific treatments	: No specific treatment.			
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.			

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. But on appropriate personal protective equipment
	inadequate. Put on appropriate personal protective equipment.

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Section 6. Accidental release measures

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 co	ont	ainment 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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Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
Ferric Chloride	7705-08-0	ACGIH TLV (United States, 1/2023). [Iron salts, soluble as Fe] TWA: 1 mg/m ³ , (as Fe) 8 hours. NIOSH REL (United States, 10/2020). [iron salts (SOLUBLE, as Fe)] TWA: 1 mg/m ³ , (as Fe) 10 hours.
Sodium Dichromate	10588-01-9	 NIOSH REL (United States, 10/2020). [chromic acid and chromates] TWA: 0.0002 mg/m³ 8 hours. ACGIH TLV (United States, 1/2023). [inorganic chromium VI compounds as Cr (VI)] TWA: 0.0002 mg/m³, (measured as Cr) 8 hours. Form: Inhalable fraction STEL: 0.0005 mg/m³, (measured as Cr) 15 minutes. Form: Inhalable fraction OSHA PEL (United States, 5/2018). [Chromium (VI) compounds] TWA: 0.005 mg/m³, (as Cr) 8 hours.
Manganese Dichloride Tetrahydrate	13446-34-9	OSHA PEL (United States, 5/2018). [Manganese compounds (as Mn)] CEIL: 5 mg/m ³ , (as Mn) NIOSH REL (United States, 10/2020). [manganese compounds and fume as Mn] TWA: 1 mg/m ³ , (as Mn) 10 hours. Form: Fume STEL: 3 mg/m ³ , (as Mn) 15 minutes. Form: Fume ACGIH TLV (United States, 1/2023). [Manganese and inorganic compounds Inhalable fraction / Respirable fraction, as Mn] TWA: 0.1 mg/m ³ , (as Mn) 8 hours. Form: Inhalable fraction TWA: 0.02 mg/m ³ , (as Mn) 8 hours. Form: Respirable fraction
Ferrous Chloride	7758-94-3	ACGIH TLV (United States, 1/2023). [Iron salts, soluble as Fe] TWA: 1 mg/m ³ , (as Fe) 8 hours. NIOSH REL (United States, 10/2020). [iron salts (SOLUBLE, as Fe)] TWA: 1 mg/m ³ , (as Fe) 10 hours.
Hydrochloric acid	7647-01-0	ACGIH TLV (United States, 1/2023). C: 2 ppm NIOSH REL (United States, 10/2020). CEIL: 5 ppm CEIL: 7 mg/m ³ OSHA PEL (United States, 5/2018). CEIL: 5 ppm CEIL: 7 mg/m ³

Occupational exposure limits (Canada)

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Ingredient name	CAS #	Exposure limits
Ferric chloride	7705-08-0	CA Alberta Provincial (Canada, 6/2018). [Iron salts, soluble as Fe] 8 hrs OEL: 1 mg/m ³ , (as Fe) 8 hours. CA British Columbia Provincial (Canada, 6/2022). [Iron salts - soluble as Fe] TWA: 1 mg/m ³ , (as Fe) 8 hours. STEL: 2 mg/m ³ , (as Fe) 15 minutes. CA Quebec Provincial (Canada, 6/2022). [Iron salts, soluble] TWAEV: 1 mg/m ³ , (as Fe) 8 hours. CA Ontario Provincial (Canada, 6/2019). [Iron salts, soluble as Fe] TWA: 1 mg/m ³ , (as Fe) 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Iron salts, soluble as Fe] STEL: 3 mg/m ³ , (measured as Fe) 15 minutes. TWA: 1 mg/m ³ (measured as Fe) 8 hours
Sodium dichromate	10588-01-9	TWA: 1 mg/m ³ , (measured as Fe) 8 hours. CA British Columbia Provincial (Canada, 6/2022). [hexavalent chromium compounds Inhalable. for water-soluble only] Absorbed through skin. Skin sensitizer. Inhalation sensitizer. Notes: No British Columbia exposure limit at this time
		CA Alberta Provincial (Canada, 6/2018). [Water-soluble Cr VI compounds as Cr] 8 hrs OEL: 0.05 mg/m ³ , (as Cr) 8 hours. CA British Columbia Provincial (Canada, 6/2022). [hexavalent chromium compounds - Water soluble as Cr(VI), Total] Absorbed through skin. Skin sensitizer. Inhalation sensitizer. TWA: 0.025 mg/m ³ , (as Cr(VI), Total) 8 hours. C: 0.1 mg/m ³ , (as Cr(VI), Total) CA Quebec Provincial (Canada, 6/2022). [Chromium VI, water soluble inorganic compounds] Skin sensitizer. Inhalation sensitizer. TWAEV: 0.05 mg/m ³ , (as Cr) 8 hours. CA Ontario Provincial (Canada, 6/2019). [Chromium and inorganic compounds, Water-soluble Cr VI compounds as Cr] TWA: 0.05 mg/m ³ , (as Cr) 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Chromium (VI) inorganic water soluble compounds as Cr] STEL: 0.15 mg/m ³ , (measured as Cr) 15 minutes. TWA: 0.05 mg/m ³ , (measured as Cr) 8 hours.
Manganese Dichloride Tetrahydrate	13446-34-9	CA British Columbia Provincial (Canada, 6/2022). [manganese - Elemental &
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		 inorganic compounds as Mn] TWA: 0.02 mg/m³, (as Mn) 8 hours. Form: Respirable TWA: 0.2 mg/m³, (as Mn, Total) 8 hours. CA Quebec Provincial (Canada, 6/2022). [Manganese- fumes, dusts and compounds] TWAEV: 0.2 mg/m³, (as Mn) 8 hours. Form: Total dust. CA Alberta Provincial (Canada, 6/2018). [Manganese, elemental & inorganic compounds as Mn] 8 hrs OEL: 0.2 mg/m³, (as Mn) 8 hours. CA Ontario Provincial (Canada, 6/2019). [Manganese elemental and inorganic compounds as Mn] TWA: 0.2 mg/m³, (as Mn) 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Manganese and inorganic compounds as Mn] STEL: 0.6 mg/m³, (measured as Mn) 15 minutes. TWA: 0.2 mg/m³, (measured as Mn) 8 hours.
Ferrous chloride	7758-94-3	CA Alberta Provincial (Canada, 6/2018). [Iron salts, soluble as Fe] 8 hrs OEL: 1 mg/m ³ , (as Fe) 8 hours. CA British Columbia Provincial (Canada, 6/2022). [Iron salts - soluble as Fe] TWA: 1 mg/m ³ , (as Fe) 8 hours. STEL: 2 mg/m ³ , (as Fe) 15 minutes. CA Quebec Provincial (Canada, 6/2022). [Iron salts, soluble] TWAEV: 1 mg/m ³ , (as Fe) 8 hours. CA Ontario Provincial (Canada, 6/2019). [Iron salts, soluble as Fe] TWA: 1 mg/m ³ , (as Fe) 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Iron salts, soluble as Fe] STEL: 3 mg/m ³ , (measured as Fe) 15 minutes. TWA: 1 mg/m ³ , (measured as Fe) 8 hours.
Hydrochloric acid 10,2 N	7647-01-0	CA Alberta Provincial (Canada, 6/2018). C: 3 mg/m ³ C: 2 ppm CA British Columbia Provincial (Canada, 6/2022). C: 2 ppm CA Ontario Provincial (Canada, 6/2019). Ceiling Limit: 2 ppm CA Quebec Provincial (Canada, 6/2022). STEV: 2 ppm 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). CEIL: 2 ppm

Occupational exposure limits (Mexico)

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Ingredient name	CAS #	Exposure limits
Ferric Chloride	7705-08-0	NOM-010-STPS-2014 (Mexico, 4/2016). [Soluble iron salts] TWA: 1 mg/m ³ , (as Fe) 8 hours.
Sodium Dichromate	10588-01-9	NOM-010-STPS-2014 (Mexico, 4/2016). [Chromium compounds of Cr VI water soluble] TWA: 0.05 mg/m ³ 8 hours. Form: soluble in water
Manganese Dichloride Tetrahydrate	13446-34-9	NOM-010-STPS-2014 (Mexico, 4/2016). [Manganese and inorganic compounds] TWA: 0.2 mg/m ³ , (as Mn) 8 hours.
Ferrous Chloride	7758-94-3	NOM-010-STPS-2014 (Mexico, 4/2016). [Soluble iron salts] TWA: 1 mg/m ³ , (as Fe) 8 hours.
Hydrochloric acid	7647-01-0	NOM-010-STPS-2014 (Mexico, 4/2016). CEIL: 2 ppm

Biological exposure indices (United States)

No exposure indices known.

Biological exposure indices (Canada)

No exposure indices known.

Biological exposure indices (Mexico)

Ingredient name	Exposure indices
Sodium Dichromate	Official Mexican STANDARD NOM- 047-SSA1-2011, Environmental Health- Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) [chromium(VI) compounds] BEI: 10 μg/l, total chrome [in urine]. Form: fume. Sampling time: increases during the work shift. BEI: 25 μg/l, total chrome [in urine]. Form: fume. Sampling time: at the end of the shift at the end of the work week.

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	:	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.
Individual protection measure	<u>)</u>	
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.

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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.
Skin 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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

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<u>Appearance</u>			
Physical state	: Liqu	uid.	
Color	: Not	available.	
Odor	: Not	available.	
Odor threshold	: Not	available.	
рН	: 2		
Melting point/freezing point	: Not	available.	
Boiling point, initial boiling point, and boiling range	: 93°	C (199.4°F)	
Flash point	: Clo	sed cup: Not applicable.	
Evaporation rate	: 0.09	9 (butyl acetate = 1)	
Flammability	: Not	available.	
Lower and upper explosion limit/flammability limit	: Not	available.	
Vapor pressure	: 55.1	1 kPa (413.6 mm Hg)	
Relative vapor density	: 1[A	Nir = 1]	
Relative density	: 1.19	9	
Solubility(ies)	:		
Media		Result	
cold water		Not soluble	

	Nedia	Result	
	cold water	Not soluble	
D .	autition coefficients a Net		

Partition coefficient: n-octanol/water

: Not applicable.

Section 9. Physical and chemical properties

Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)
Molecular weight	: Not applicable.
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

Product/ingredient name	Result	Species	Dose	Exposure
Ferric Chloride Manganese Dichloride	LD50 Oral LD50 Oral	Rat Rat	316 mg/kg 1484 mg/kg	-
Tetrahydrate Ferrous Chloride	LD50 Oral	Rat	450 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Hydrochloric acid	Eyes - Mild irritant	Rabbit	-	0.5 minutes 5	-
	Skin - Mild irritant	Human	-	mg 24 hours 4 %	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Section 11. Toxicological information

	5		
Product/ingredient name	OSHA	IARC	NTP
Sodium Dichromate Hydrochloric acid	+ -	1 3	Known to be a human carcinogen. -

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
Sodium Dichromate	Category 3		Respiratory tract irritation
Hydrochloric acid	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	•••	Route of exposure	Target organs
Sodium Dichromate	Category 1	-	-

Aspiration hazard

Not available.

Information on the routes of exposur	kely : Not available.
Potential acute he	<u>h effects</u>
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.
Symptoms related	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
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Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate eff	fects and also chronic effects from short and long term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health ef	<u>fects</u>
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

Route	ATE value
Oral	724.14 mg/kg
Dermal	9263.16 mg/kg
Inhalation (vapors)	4.21 mg/l

Section 12. Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
Ferric Chloride	Acute LC50 644.39 µg/l Fresh water	Crustaceans - <i>Stenocypris major</i> - Adult	48 hours
	Acute LC50 9600 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 20.26 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 0.7 mg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Neonate	21 days
Sodium Dichromate	Acute LC50 32.3 µg/l Fresh water	Crustaceans - Simocephalus vetulus	48 hours
	Acute LC50 0.0113 µg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 4000 µg/l Fresh water	Fish - Salmo salar	4 days
	Chronic NOEC 0.0125 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	21 days
	Chronic NOEC 1280 µg/l Fresh water	Fish - Pimephales promelas -	32 days
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Section 12. Ecological information

		1	
		Embryo	
Ferrous Chloride	Acute EC50 17 μg/l Fresh water	Daphnia - <i>Daphnia magna</i> -	48 hours
		Neonate	
	Acute LC50 4000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
Hydrochloric acid	Acute LC50 240000 µg/l Marine water	Crustaceans - Carcinus maenas -	48 hours
		Adult	
	Acute LC50 282 ppm Fresh water	Fish - <i>Gambusia affinis</i> - Adult	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Ferric Chloride	-	20	Low
Ferrous Chloride		20	Low

Mobility in soil

Soil/water partition coefficient (Koc)

: 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

	DOT Classification	TDG Classification	Mexico Classification	ΙΑΤΑ	IMDG
UN number	UN3264	UN3264	UN3264	UN3264	UN3264
UN proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid, Manganese Dichloride Tetrahydrate)	Corrosive liquid, acidic, inorganic, n. o.s. (Hydrochloric acid, Manganese Dichloride Tetrahydrate). Marine pollutant (Sodium Dichromate)			
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Transport	8	8	8	8	8
hazard class(es)	CORRORATE B			15 20 10 10 10 10 10 10 10 10 10 10 10 10 10	
Packing group	II	II	II	Ш	11
Environmental hazards	No.	No.	No.	Yes. The environmentally hazardous substance mark is not required.	Yes.
Additional information	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8).	-	The environmentally hazardous substance mark may appear if required by other transportation regulations.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency</u> <u>schedules</u> F-A, S B
	ERG No.	ERG No.	ERG No.		
	154	154	154		
pecial precautions	consid mode suitab to shi of the dange and o	modal shipping descrip der container sizes. The of transport (sea, air, oly for that mode of transport, and compliance person offering the pre- perous goods must be the n all actions in case of	e presence of a s etc.), does not ind nsport. All packag e with the applica oduct for transpor rained on all of the	shipping description for dicate that the product ing must be reviewed ble regulations is the s rt. People loading and e risks deriving from th	r a particular is packaged for suitability prior sole responsibility unloading
ansport in bulk ac IMO instruments	cording : Not ava	ailable.			
	Proper		: Not available		

International regulations

Montreal Protocol

Not listed.

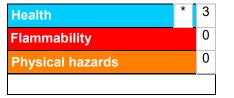
Stockholm Convention on Persistent Organic Pollutants Not listed.

Section 15. Regulatory information

International lists	: Australia inventory (AIIC): Not determined.
	China inventory (IECSC): Not determined.
	Japan inventory (CSCL): 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.)



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

Classification	Justification	
ACUTE TOXICITY (oral) - Category 4	Calculation method	
ACUTE TOXICITY (inhalation) - Category 3	Calculation method	
SKIN CORROSION/IRRITATION - Category 1	On basis of test data	
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1	On basis of test data	
RESPIRATORY SENSITIZATION - Category 1	Calculation method	
SKIN SENSITIZATION - Category 1	Calculation method	
GERM CELL MUTAGENICITY - Category 1	Calculation method	
CARCINOGENICITY - Category 1A	Calculation method	
TOXIC TO REPRODUCTION - Category 1B	Calculation method	
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1	Calculation method	

<u>mistory</u>	
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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 = Internediate 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

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Section 16. Other information

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.