# Safety Data Sheet



<pre>1 destination Product transmits Product tr</pre>		Revision date 08/11/2016
Product name: for (11) (chloride hexelydrate) Book number: 1:207 Book number: 1:207	1 Identification	
Store August         Constraint         Constraint <t< td=""><td></td><td></td></t<>		
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P280       Wear protective gloves/protective clothing/eye protection/face protection.         P305+P351+P358 [F IN EVES: Rines caulously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P300       IF exposed or if you feel unwell:         P301       Immediately call a POISON CENTER or doctor/physician.         WHMS classification       Description and relia causing other toxic effects         E - Corosive material       Corosive material         Will Stating's (scale 0-4)       (ffaction System HMS) rating's (scale 0-4)         (ffactaction system HMS) rating's (scale 0-4)       (ffactaction System HMS) rating's (scale 0-4)         (ffactaction system HMS) rating's (scale 0-4)       (ffactaction System)         (ffactaction system HMS) rating's (scale 0-4)       (ffactaction System)         (ffactaction system HMS) rating's (scale 0-4)       (ffactaction System)         (ffactaction system HMS) rating's (scale 0-4)       (ffactaction System HMS) rating's (scale 0-4)         (ffactaction system HMS) rating's (scale 0-4)       (ffactaction System HMS) rating's (scale 0-4)         (ffactaction system HMS) rating's (scale 0-4)       (ffactaction System PMS) rating's (scale 0-4)         (ffactaction system HMS) rating's (scale 0-4)       (ffactaction System)         Will water of PBT and vPVB assessment PBT; Not applicable.       (ffactaction: Substances Casticable)         26 Compositi	H314 Causes severe skin burns and eye damage.	
P300       IF exposed or if you feel unwell:         P310       Immediately call a POISON CENTER or doctor/physician.         WHMIS classification       POISON CENTER or doctor/physician.         W28 - Toxic material       POISON         Will Statings (scale 0-4)       POISON CENTER or doctor/physician.         W1MIS classification system       Poison         W1MIS ratings (scale 0-4)       Poison         W1MIS ratings (scale 0-4)       Poison         Particular Construction System       Poison         W1MIS ratings (scale 0-4)       Poison         W2MIS of PB1 and vPVB assessment       Poison         PT: Not applicable.       Poison         Scomposition/Information on ingredients       Chemical characterization: Substances         CASE Opeription:       Economical characterization: Substances         CASE Opeription:       Economber: 231-729-4 <td>Precautionary statements P280 Wear protective gloves/protective clothing/eye protection/face protection.</td> <td></td>	Precautionary statements P280 Wear protective gloves/protective clothing/eye protection/face protection.	
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E - Corrosive material Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) (Hazardous Materials Identification System) (Hazardous Materials Identification System) Health (acute effects) = 3 Fiammability = 0 Physical Hazard = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 10025-77-1 fron(III) chloride hexahydrate Identification number(s): EC number: 231-729-4  4 First-aid measures Description of first aid measures General information Immediately remove any clothing soiled by the product. After inhalation Supply Tresh air. If required, provide artificial respiration. Keep patient warm.	WHMIS classification	
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## Product name: Iron(III) chloride hexahydrate (Contd. of page 1) Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed Causes severe skin burns. Harmful if swallowed. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Hydrogen chloride (HCI) Hydrogen chloride (HCl) Iron oxides Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. 6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. 7 Handling and storage Handling Precautions for safe handling Handle under dry protective gas. Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: The product is not flammable Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from water/moisture. Store away from storing bases. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. This product is hygroscopic. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. Exposure controls The protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. **Penetration time of glove material (in minutes)** Not determined **Eye protection:** Tightly sealed goggles

(Contd. of page 2)

## Product name: Iron(III) chloride hexahydrate

Full face protection **Body protection:** Protective work clothing.

9 Physical and chemical properties		
Information on basic physical and che		
General Information		
Appearance: _Form:	Lump	
Odor: Odor threshold:	Odorless Not determined.	
pH-value (10 g/l) at 20 °C (68 °F):	1.8	
Change in condition		
Melting point/Melting range:	37 °C (99 °F)	
Boiling point/Boiling range: Sublimation temperature / start:	280-285 °C (536-545 °F) Not determined	
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined. Not determined	
Ignition temperature: Decomposition temperature:	Not determined	
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits:	Not determined.	
Lower:	Not determined	
Upper: Vapor pressure:	Not determined Not applicable.	
Density at 20 °C (68 °F):	1.82 g/cm³ (15.188 lbs/gal)	
Relative density Vapor density	Not determined. Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with Water at 20 °C (68 °F):	920 g/l	
	Soluble	
Partition coefficient (n-octanol/water): Viscosity:		
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	Not applicable. No further relevant information available.	
Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Water/moisture Bases Oxidizing agents Hazardous decomposition products: Hydrogen chloride (HCl) Iron oxides		
11 Toxicological information Information on toxicological effects Acute toxicity: Harmful if swallowed. Swallowing will lead to a strong corrosive The Registry of Toxic Effects of Chemica LD/LC50 values that are relevant for c The following value/values refer to the au Oral LD50 [316 mg/kg (rat)]	e effect on mouth and throat and to the danger of perforation of esophagus and stomach. al Substances (RTECS) contains acute toxicity data for this substance. <b>:lassification:</b> nhydrous compound:	
Skin irritation or corrosion: Causes se		
Eye irritation or corrosion: Causes ser Sensitization: No sensitizing effects kno	own.	
Germ cell mutagenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.		
Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known.		
Specific target organ system toxicity Specific target organ system toxicity	<ul> <li>repeated exposure: No effects known.</li> <li>single exposure: No effects known</li> </ul>	
Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known.		
Additional toxicological information:	istry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
Carcinogenic categories		
OSHA-Ca (Occupational Safety & Hea	Ith Administration) Substance is not listed.	
12 Ecological information		
Toxicity		
Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper governmental permits.		
Do not allow undiluted product or large of	ne environment without proper governmental permits. quantities to reach ground water, water course or sewage system.	
Avoid transfer into the environment. Results of PBT and vPvB assessment		
<b>PBT:</b> Not applicable.		ontd. on page 4)
		USA

Printing date 08/12/2016 Revision date 08/11/2016 Product name: Iron(III) chloride hexahydrate (Contd. of page 3) vPvB: Not applicable. Other adverse effects No further relevant information available. 13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. Recommended cleansing agent: Water, if necessary with cleansing agents. 14 Transport information UN-Number DOT, ÎMDĞ, IATA UN3260 UN proper shipping name DOT Corrosive solid, acidic, inorganic, n.o.s. (Iron(III) chloride hexahydrate) CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Iron(III) chloride hexahydrate) ĨMĎĠ, IATA Transport hazard class(es) DOT Class Label 8 Corrosive substances. 8 (C2) Corrosive substances 8 Class abe IMDG, IATA Class 8 Corrosive substances. Label Packing group DOT, IMDG, IATA 111 Environmental hazards: Not applicable. Special precautions for user Segregation groups Warning: Corrosive substances Acids Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT Marine Pollutant (DOT): No UN "Model Regulation": UN3260, Corrosive solid, acidic, inorganic, n.o.s. (Iron(III) chloride hexahydrate), 8, 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms  $\langle ! \rangle$ 

GHS05 GHS07

Signal word Danger Hazard statements

H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.

H314 Causes severe skin burns and eye damage. Precautionary statements P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER or doctor/physician.

National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. This product is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

market and use must be observed. Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### Product name: Iron(III) chloride hexahydrate

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### 16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 08/12/2016 / -Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association IATA: International Abstracts Service (division of the American Chemical Substances EVECS: European Internation So percent US50: Lethral concentration, 50 percent US50: Lethral concentration, 50 percent US50: Lethral dose, 50 percent US50: Active Tox, 4 cute Tox, 50 Active Tox, 4 cute Tox, 61 Active Tox, 4 cute Tox, 61 Active Tox, 4 cute Tox, 4 cute Tox, 7 Active Tox, 7 Active Tox, 4 cute Tox, 7