Kl03259 A Ferric chloride anhydrous

SDS No.: FF0100

SAFETY DATA SHEET

KII 63259A

CORROSIVE STORAGE CODE WHITE

Section 1

Chemical Product Comp

QC1 innocusio Aug Fort Atkinson, Wi 53538-0901

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory use only Not for drug, food or household use

Product

FERRIC CHLORIDE, ANHYDROUS

Synonyms

Iron(III) Chlonde Anhydrous

Section 2

Hazards Identification

Signal word. DANGER

Pictograms: GHS05/GHS07/GHS09

Target organs* Eyes, Skin, Respiratory system, Liver, Gastrointestinal tract



GHS Classification.

Corrosive to metals (Category 1) Acute toxicity, oral (Category 4) Acute toxicity dermal (Category 5) Skin imitation (Category 2) Eye damage (Category 1) Acute equatic toxicity (Category 2) Chronic aquatic toxicity (Category 2)

GHS Label information. Hazard statement.

H290 May be corrosive to metals

H302 Harmful if swallowed

H313 May be harmful in contact with skin.

H315 Causes skin imtation

H318 Causes senous eve damage

H411 Toxic to aquatic life with long lasting effects

Precautionary statement:

P234 Keep only in original container

P406 Store in corrosive resistant container with a resistant inner liner

P273 Avoid release to the environment.

P391 Collect spillage

P264 Wash hands thoroughly after handling

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective dothing/eye protection/face protection P301+P330+P312 IF SWALLOWED Rinse mouth. Cell a POISON CENTER or

doctor if you feel unwell

P302+P352 IF ON SKIN Wash with plenty of water and soap

P332+P313 If skin imitation occurs. Get medical attention

P305+P351+P338 IF IN EYES Rinse caubously with water for several minutes

Remove contact lenses, if present and easy to do Continue rinsing

P310 Immediately call a POISON CENTER or doctor

P362+P364 Take off contaminated clothing and wash it before reuse

P501 Dispose of contents/container to a licensed chemical disposal agency in

accordance with local/regional/national regulations

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm

Section 3

Composition / Information on Ingredients

Chemical Name

CAS

EINECS

Fernc chlonde, anhydrous

7705-08-0

100%

231-729-4

" 1 + 16 km 2010 C.S. INGESTION: HARMFUL IF SWALLOWED MAY CAUSE LIVER OR KIDNEYS DAMAGE. Call physician or Poison Control Center immediately. Induce vorniting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person

99%×X

INHALATION MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT. MAY CAUSE EYE DAMAGE. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN CAUSES SKIN IRRITATION Remove contaminated clothing. Flush thoroughly with mild soap and water If irritation occurs, get medical attention

Section 5

Fire Fighting Measures

Suitable Extinguishing Media. Do NOT use water! Dry chemicals, CO2 or other agents as appropriate for surrounding fires

Protective Actions for Fire-fighters In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool

Specific Hazards. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. May release toxic furnes of Hydrogen chloride gas in a fire

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Accidental Religion Measures

Personal Precautions: Evacuate personnel to safe area Use proper personal protective equipment as indicated in Section 8 Provide adequate ventilation

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways

Containment and Cleanup. Recover for reuse if not contaminated. Remove all sources of ignition. Sweep or vacuum up and place in a suitable container to proper disposal Wash spill area with soap and water

Kl03259 A Ferric chloride anhydrous

Section 7 Handling 8 Storage dothing before reuse wet areas. Keep away from metals Section 8 Exposure Controls / Personal Protection Exposure Limits

19 (4.2) (4.2) (4.2) (4.2) (4.2) (4.2) (4.2) Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts or vapors. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash

Conditions for Safe Storage: Store in a cook, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources. Avoid contact with humid or

Chemical Name iron salts, soluble, as Fe

ACĞIH (TLV) TWA 1 mg/m³ OSHA (PEL) No listing

NIOSH (REL) TWA 1 morm

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low

Respiratory protection. None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/IMSHAapproved resourator

Section 9

Physical & Chemical Properties

Appearance: Solid Greenish-black Odor Slight ron/acid odor Odor threshold Data not available pH; <1 0 (2% solution) Melting / Freezing point: 307°C (580°F)

Bolling point 307°C (580°F) Flash point: Data not available Evaporation rate (n-Butyl acetate = 1). <1 Flammability (solid/gas) Data not available Explosion limits. Lower / Upper Data not available Vapor pressure (mm Hg) Negligible Vapor density (Air = 1) Data not available Relative density (Specific gravity) 2 80-2.90 @ 17 5°C Solubility(res) 50% by weight in water

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Partition coefficient: Data not available Auto-ignition temperature. Data not available Decomposition temperature: Data not available Viscosity: Data not available

Molecular formula: FeCla Molecular weight: 162.21

Section 10 Stability & Reactivity

Chemical stability: Stable

Hazardous polymerization Will not occur Conditions to avoid: Excessive temperatures, heat, water, potassium, sodium, incompatible materials

incompatible materials. Water, oxidizing agents, metals strong bases, reducing agents, alcohols

Hazardous decomposition products: Hydrogen gas on contact with metals

Section 11

Toxicological Information

Acute toxicity. Oral-rat LD50 >1,932 mg/kg · Dermal-rabbit LD50 >2,000 mg/kg

Skin corrosion/irritation: Data not available Serious eye damage/irritation Data not available Respiratory or skin sensitization. Data not available

Germ cell mutagenicity. Data not available

Carcinogenity: Data not available

NTP. No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

OSHA No component of this product present at levels greater than or equal to 0 1% is identified as a carcinogen or potential carcinogen by OSHA

Reproductive toxicity. Data not available STOT-single exposure: Data not available STOT-repeated exposure. Data not available Aspiration hazard Data not available

Potential health effects:

inhalation. Dust or vapors may be corrosive or imitating to the nose, throat and respiratory tract. Symptoms may include burning sensation, coughing, shortness of breath lung inflammation and pulmonary edema

ingestion. May cause severe liver or kidneys damage. May also cause gastrointestinal damage

Skin. May cause severe imitation and/or burns.

Eyes May cause severe irritation tearing blurred vision, burns, severe damage, and permanent blindness

Signs and symptoms of exposure. See Potential health effects above. Exercise appropriate procedures to minimize potential hazards

Additional information RTECS #: LJ9100000

Ecological Information Section 12 Toxicity to fish. Fathead menows LC50 >1,000 ppm

Toxicity to daphnia and other aquatic invertebrates. Daphnia magna, EC50 >1 000 ppm

Toxicity to algae. No data available

Persistence and degradability. No data available Mobility in soil: No data available

Bioaccumulative potential. No data available PRT and vPvB assessment: No data available

Other adverse effects. An environmental hazard cannot be excluded in the event of umprofessional handling or disposal 1/4 24/ 200 m

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport Information (US DOT/ CANADA TDG)

UN/NA number: UN1773 Hazard class: 8

Shipping name: Fernc chloride, anhydrous

Packing group: III

Reportable Quantity: 1,000 lbs (454 kg)

Marine pollutant, No

Exceptions: Limited quantity equal to or less than 5 Kg

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Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the inventory list Component

TSCA CERLCA (RQ)

RCRA code

DSL

NDSL

WHMIS Classification

Fernc chlonde anhydrous

Listed

1,000 lbs (454 kg)

Not listed

Listed

Not listed

Section 16

Additional Information ** **

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP National Toxicology Pro IARC International Agency for Research on Cancer OSHA Occupational Safety and Health Administration. STOT Specific Target Organ Toxicity SE Single Exposure. RE. Repeated Exposure. ERG Emergency Response Guidebook

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Supercedes. May 15, 2013

