



KHUSHI GROUP

KHUSHI CHEMICALS PVT LTD

PLOT-3548, PHASE-4, G.I.D.C

CHHATRAL, TA-KALOL

DI-GANDHINAGAR-382715

PH.NO-02764-277220/21,326551,291875

Tel.fax-02764-277226

E-MAIL - mahesh@khushigroup.net

www.khushigroup.net

MSDS OF FERRIC CHLORIDE HEXAHYDRATE

Material Safety Data Sheet

Iron(III) chloride, hexahydrates , 59 %

Section 1 - Chemical Product and Company Identification

MSDS Name: Iron(III) chloride, hexahydrates , 59 %

Catalog Numbers: 16943-0000, 16943-0010, 16943-0025, 16943-0050

Synonyms: Ferric chloride hexahydrates

Section 2 - Composition, Information on Ingredients

CAS# Chemical Name: % EINECS#

7705-08-0 Iron(III) chloride, hexahydrates , 59 % 231-729-4

Hazard Symbols: C

Risk Phrases: 22 34

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Harmful if swallowed. Causes burns. Hygroscopic (absorbs moisture from the air).

Potential Health Effects

Eye: Causes eye burns.

Skin: Causes skin burns.

Ingestion: Harmful if swallowed. Causes gastrointestinal tract burns.

Inhalation: Causes chemical burns to the respiratory tract.

Chronic:

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General

Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance noncombustible.

Extinguishing

Media:

Use extinguishing media most appropriate for the surrounding fire. Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

Section 7 - Handling and Storage

Handling: Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

Storage: Store in a cool, dry place. Store in a tightly closed container. Corrosives area.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations Exposure Limits

CAS# 7705-08-0:

Belgium - TWA: (iron salts (soluble)): 1 mg/m³ VLE (as Fe)

Malaysia: (iron salts (soluble)): 1 mg/m³ TWA (as Fe)

Netherlands: (iron salts (soluble)): 1 mg/m³ MAC (as Fe)

Spain: (iron salts (soluble)): 1 mg/m³ VLA-ED (as Fe)

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved

respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Yellow Crystal

Color: dark yellow

Odor: arcad

pH: Not available

Vapor Pressure: 1hPa @20 deg C

Viscosity: Not available

Boiling Point: 316 deg C @760mmHg (600.80°F)

Freezing/Melting Point: 300 deg C(decom)

Autoignition Temperature: Not available

Flash Point: Not available

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

Decomposition Temperature:

Solubility in water: 920 g/l (20°C)

Specific Gravity/Density:

Molecular Formula: Cl₃Fe

Molecular Weight: 270.306

Section 10 - Stability and Reactivity

Chemical Stability: Stable.

Conditions to Avoid: Incompatible materials, dust generation, excess heat, exposure to moist air or water.

Incompatibilities with Other Materials Strong oxidizing agents, alkali metals, allyl chloride, ethylene oxide, potassium, sodium.

Hazardous Decomposition Products Hydrogen chloride, oxides of iron.

Hazardous Polymerization Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 7705-08-0: LJ9100000

LD50/LC50:

RTECS:

CAS# 7705-08-0: Oral, mouse: LD50 = 200 mg/kg;

Oral, rat: LD50 = 316 mg/kg;

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Carcinogenicity: Iron(III) chloride, anhydrous - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

Ecotoxicity: Not available

Other:

Avoid entering into waters or underground water.

logPOW: -4

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

IATA IMO RID/ADR

Shipping Name: FERRIC CHLORIDE HEXAHYDRATES FERRIC CHLORIDE HEXAHYDRATES, FERRIC CHLORIDE HEXAHYDRATES

Hazard Class: 8 8 8

UN Number: 1773

Packing Group: III

USA RQ: CAS# 7705-08-0: 1000 lb final RQ; 454 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: C

Risk Phrases:

R 22 Harmful if swallowed.

R 34 Causes burns.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 7705-08-0: 1

Canada

CAS# 7705-08-0 is listed on Canada's DSL List

US Federal

TSCA

CAS# 7705-08-0 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 7/16/2005

Revision #1 Date 6/05/2008

Revisions were made in Sections: General revision.

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