HI-VALLEY CHEMICAL
LABORATORY PRODUCTS
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Ferric Chloride Hexahydrate

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:	Ferric Chloride Hexahydrate
Synonyms:	Iron (III) Chloride Hexahydrate
SDS Number:	R-150
Revision Date:	7/19/2019
Version:	1
Supplier Details:	High Valley Products, Inc. 1134 West 850 North Centerville, Utah 84014
Phone:	801-295-9591
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Emergency:	PERS: 800-633-8253

2 HAZARDS IDENTIFICATION

Classification of Substance

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Physical, Corrosive to Metals, 1
Health, Acute toxicity, 4 Oral
Health, Skin corrosion/irritation, 2
Health, Serious Eye Damage/Eye Irritation, 1

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:

GHS Hazard Statements:

H290 - May be corrosive to metals
H302 - Harmful if swallowed
H315 - Causes skin irritation
H318 - Causes serious eye damage

GHS Precautionary Statements:

P234 - Keep only in original packaging.
P264 - Wash ... thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P312 - IF SWALLOWED: Call a POISON CENTER/ doctor/…if you feel unwell.
P302 + P352 - IF ON SKIN: Wash with plenty of water/...
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do Continue rinsing.
P310 - Immediately call a POISON CENTER/doctor/…
P330 - Rinse mouth.
P332 + P313 - If skin irritation occurs: Get medical advice/attention.
P362 - Take off contaminated clothing.
P390 - Absorb spillage to prevent material damage.
P406 - Store in a corrosion resistant/...container with a resistant inner liner.

P501 - Dispose of contents/container to ...

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients		
CAS#	%	Chemical Name
10025-77-1	100%	Ferric Chloride Hexahydrate

4 FIRST AID MEASURES

Inhalation: If inhaled, remove to fresh air and call a physician for instructions. In case of difficulty breathing, use oxygen assistance. Get medical attenion if condition is critical.

Skin Contact: Wash with soap and water. Consult a physician.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5 FIRE FIGHTING MEASURES

Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture
Hydrogen chloride gas, Iron oxidesHydrogen chloride gas, Iron oxides

Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

Further information
No data

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions:
Do not let product enter drains.

Methods and materials for containment and cleaning up:
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7 HANDLING AND STORAGE

Handling Precautions: Avoid contact with eyes, skin, or clothing. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. Provide appropriate exhaust ventilation at places where dust is formed.

Storage Requirements: Store in cool/dry/well ventilated area.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment:

Ferric Chloride Hexahydrate cas#:(10025-77-1) [100%]

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after
use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)
Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)
data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method:
EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the
supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for
any specific use scenario.
Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to
the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a
backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested
and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure
Do not let product enter drains.

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Component	CAS-No.	Value	Control parameters	Basis
Iron trichloride hexahydrate	10025-77-1	TWA	1.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation Skin irritation varies		
		TWA	1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Skin irritation varies		
		TWA	1 mg/m3	USA. NIOSH Recommended Exposure Limits

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow		
Physical State:	Solid	**Freezing or Melting Point:**	No data available
Odor Threshold:	No data available	**Flash Point:**	No data available

Specific Gravity or Density:	1.82	**Volatile organic compound:**	No data available
Boiling Point:	280 - 285 °C (536 - 545 °F) - lit.	**Upper Flammability Limit and Lower Flammability Limit:**	No data available
Flammability:	No data available		
Vapor Pressure:	1 hPa at 194 °C (381 °F)		
Potentia Hydrogenii:	No data available		

10 STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under recommended storage conditions.

Conditions to Avoldentification: Avoid moisture

Materials to Avoldentification: Strong Oxidizing Agents. Forms shock-sensitive mixtures with certain other materials., Sodium/sodium oxides,
Potassium Forms shock-sensitive mixtures with certain other materials., Sodium/sodium oxides, Potassium

11 TOXICOLOGICAL INFORMATION

Ferric Chloride Hexahydrate cas#:(10025-77-1) [100%]

Acute toxicity
LD50 Oral - Rat - 900 mg/kg(Iron trichloride hexahydrate)
Inhalation: No data available(Iron trichloride hexahydrate)
Dermal: No data available(Iron trichloride hexahydrate)
No data available(Iron trichloride hexahydrate)

Skin corrosion/irritation
No data available(Iron trichloride hexahydrate)

Serious eye damage/eye irritation
No data available(Iron trichloride hexahydrate)

Respiratory or skin sensitisation
No data available(Iron trichloride hexahydrate)

Germ cell mutagenicity
No data available(Iron trichloride hexahydrate)

Carcinogenicity
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.
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.
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
No data available(Iron trichloride hexahydrate)
No data available(Iron trichloride hexahydrate)

Specific target organ toxicity - single exposure
No data available(Iron trichloride hexahydrate)

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available(Iron trichloride hexahydrate)

Additional Information
RTECS: NO5425000

Overdose of iron compounds may have a corrosive effect on the gastrointest stricture formation. Several hours may elapse before symptoms that can in hematemesis occur. After apparent recovery a person may experience metabo

Further complications may develop leading to acute liver necrosis that ca, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Iron trichloride hexahydrate)

12 ECOLOGICAL INFORMATION

Ferric Chloride Hexahydrate cas#:(10025-77-1) [100%]

Toxicity
No data available

Persistence and degradability
No data available

Bioaccumulative potential
No data available

Mobility in soil
No data available(Iron trichloride hexahydrate)

Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects
No data available

13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

14 TRANSPORT INFORMATION

UN3260, Corrosive solid, acidic, inorganic, n.o.s., 8, PGIII, (Iron trichloride hexahydrate)

15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Ferric Chloride Hexahydrate (10025-77-1) [100%]

Regulatory CODE Descriptions
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16 OTHER INFORMATION

Disclaimer:
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