## 1. Product and Company Identifaction

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Porduct Name Ferric Chloride
Part Number RXSOL-60-1627-002

Company Details:

RX MARINE INTERNATIONAL 105, A wing , BSEL , TECH PARK. VASHI ,NEW BOMBAY 400703 INDIA

Branch: Kandla, Mumbai, Chennai, Vizag, Kolkata, UAE, OMAN, CANADA and KENYA

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 Email
 mail@rxmarine.com

 Website
 www.rxmraine.com

# 2. Composition / Information on ingredients

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Product name Cas No EC No Weight Formula Iron(III) chloride 7705-08-0 231-729-4 162,21 g/mol FeCl<sub>3</sub>

#### 3. Hazards Identification

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Signal Word Danger

Hazard Statements H290 May be corrosive to metals. H302 Harmful if swallowed. H315

Causes skin irritation. H317 May cause an allergic skin reaction. H318

Causes serious eye damage.

Precautionary statements P234 Keep only in original packaging. P261 Avoid breathing dust. P280

Wear protective gloves/ 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.

Classification of the substance or mixture

No data available

Supplemental Hazard Statements No data available

Other hazards This substance/mixture contains no components considered to be either

persistent, bioaccumulative and toxic (PBT), or very persistent and very

bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 4. First Aid Measures

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General advice First aiders need to protect themselves. Show this material safety data

sheet to the doctor in attendance.

If inhaled After inhalationfresh air.

Eye Contact After eye contact: rinse out with plenty of water. Immediately call in

ophthalmologist. Remove contact lenses.

Swallowed After swallowing immediately make victim drink water (two glasses at

most). Consult a physician.

Skin Contact In case of skin contact Take off immediately all contaminated clothing.

Rinse skin with water/ shower. Call a physician immediately.

Inhalation No data available
Ingestion No data available

Most important symptoms and effects, both acute and delaye

The most important known symptoms and effects are described in the

labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

#### 5. Fire-fighting Measures

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Flammability No data available

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances

and the surrounding environment.

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are

given.

Special hazards arising from the substance or mixture Hydrogen chloride gas Iron oxides Not combustible. Caution! in contact

with water product releases:hydrochloric acid Fire may cause evolution of: Hydrogen chloride gas Ambient fire may liberate hazardous vapours.

Further information Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent

fire extinguishing water from contaminating surface water or the ground

water system. No data available

Hazardous combustion

products

Advice for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent

skin contact by keeping a safe distance or by wearing suitable protective

clothing.

Protective Equipment No data available
Specific Hazards Arising from the Chemical No data available

#### 6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection

see section 8.

Spillage No data available
Personal Protection No data available

Environmental Precaution Do not let product enter drains. Risk of explosion.

Methods and materials for Cover drains. Collect, bind, and pump off spills. Observe possible containment and cleaning material restrictions (see sections 7 and 10). Take up dry. Dispose of

properly. Clean up affected area. Avoid generation of dusts.

Reference to other sections For disposal see section 13.

## 7. Handling and Storage

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Advice on protection against fire and explosion No data available

Incompatible materials No data available

Hygiene measures Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For

precautions see section 2.2.

Advice on safe handling Keep workplace dry. Do not allow product to come into contact with

water

Conditions for safe storage including any incompatibilities

No data available

Storage conditions No metal containers. Tightly closed. Dry. Recommended storage

temperature see product label.

Storage class Storage class (TRGS 510): 8B: Non-combustible, corrosive hazardous

materials

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are

stipulated

Advice on general occupational hygiene No data available

## 8. Exposure controls and personal protection

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Exposure controls Personal protective equipment

Engineering Control No data available

Eye/face protection Use equipment for eye protection tested and approved under appropriate

government standards such as NIOSH (US) or EN 166(EU). Safety

glasses

Body Protection Protective clothing.

Skin protection This recommendation applies only to the product stated in the safety data

sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

Respiratory protection Recommended Filter type: Filter B-(P2) The entrepeneur has to ensure

that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These

measures have to be properly documented.

Other Protection Measure No data available

## 9. Physical and chemical properties

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Physical state Powder

Colour Green, to, black
Odour pungent

Odor Threshold No data available

pH No data available Melting Point  $306 \, ^{\circ}\text{C} \cdot (\text{ECHA})$ 

Boiling Point Decomposes below the boiling point.

Flash Point No data available
Evaporation Rate No data available

Flammability (solid, gas) does not ignite - A.10. (Regulation (EC) No 440/2008, Annex A)

Explosive limits

No data Available

Upper/lower flammability or explosive limits

No data available

Autoignition temperature

429,0 °C at 1.013 hPa

Decomposition temperature 316 °C

Vapour pressure < 1 hPa at 20 °C
Viscosity No data available
Density 2,800 g/cm3 at 25 °C

Relative Density

Specific Gravity

No data available

Partition coefficient

Explosive properties

No data available

Solubility

No data available

Ignition temperature

No data available

No data available

No data available

No data available

## 10. Stability and reactivity

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Reactivity No data available

Chemical stability The product is chemically stable under standard ambient conditions (room

temperature)

Possibility of hazardous reactions Violent reactions possible with: Oxidizing agents Alcohols Alkali metals

Ammonia

Conditions to avoid No data available Incompatible materials No data available

Hazardous decomposition products In the event of fire: see section 5

## 11. Toxicological information

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Acute toxicity

LD50 Oral - Rat - 72,0 mg/kg Remarks: (RTECS) Acute toxicity estimate

Oral - 72 mg/kg (Calculation method) LC50 Inhalation - Rat - male and

female - 4 h - 2,76 mg/l - vapor (OECD Test Guideline 403) Acute toxicity estimate Inhalation - 2,76 mg/l - vapor (Calculation method)

Skin corrosion/irritation

Skin - Rabbit Result: Causes burns. Remarks: (ECHA) Remarks:
Classified according to Regulation (EU) 1272/2008, Annex VI (Table

3.1/3.2)

Serious eye damage/irritation Causes serious eye damage.

Respiratory or skin sensitization Maximization Test - Guinea pig negative (OECD Test Guideline 406) (in analogy to similar products) The value is given in analogy to the

following substances: Methanol

Carcinogenicity Presumed to have carcinogenic potential for humans

Germ cell mutagenicity May cause genetic defects.

Reproductive toxicity May damage the unborn child. May damage fertility.

Inhalation - May cause respiratory irritation. - Respiratory system Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2) May cause drowsiness or dizziness. - Nervous system Classified

according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. RTECS: KX2450000 burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Exposure to large amounts can cause:, Convulsions To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# 12. Ecological information

Specific target organ toxicity - single exposure

Additional Information

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Persistence and degradability Biodegradability aerobic - Exposure time 28 d Result: 96 % - Readily biodegradable. (OECD Test Guideline 301C)

Toxicity to fish Static test LC50 - Pimephales promelas (fathead minnow) - 84 mg/l - 96 h (US-EPA)

Toxicity to daphnia and other aquatic invertebrates

Static test LC50 - Daphnia magna (Water flea) - 212 mg/l - 48 h (US-EPA)

Toxicity No data available

Toxicity to bacteria Static test EC50 - activated sludge - > 713 mg/l - 3 h (OECD Test Guideline 209)

Toxicity to algae Static test ErC50 - Pseudokirchneriella subcapitata - 240 mg/l - 96 h (US-EPA)

Bioaccumulation potential Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected

Mobility in soil

Results of PBT and vPvB assessment

Endocrine disrupting properties

Other adverse effects

No data availalble

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting propertiesaccording to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

No data availalble

#### 13. Disposal considerations

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Product

Contaminated packaging Waste treatment Method Pressurised gas bottle: dispose of only in empty condition!

No data available No data available

## 14. Transport information

UN number ADR/RID:1040

ADR/RID:ETHYLENE OXIDE UN proper shipping name

Transport hazard class(es) ADR/RID:2.3 (2.1)

ADR/RID:-Packaging group ADR/RID:No Environmental hazards

Special precautions for user Tunnel restriction code (B/D)

Further information No data available www.rxmarine.com

IMDG:1040 IATA:1040

IMDG:ETHYLENE OXIDE IATA:ETHYLENE OXIDE

IMDG:2.3 (2.1) IATA:2.3 (2.1)

IMDG:-IATA:-IMDG:No IATA:No

# 15. Regulatory information

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substance or mixture

Other regulations

Chemical Safety Assessment

Safety, health and environmental regulations/legislation specific for the This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

> Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work

A Chemical Safety Assessment was not carried out for this substance.

#### 16. Other information

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Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and weassume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.

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