



RXSOL

VARANASI CHEMICAL | RX MARINE INTERNATIONAL

RXSOL-69-6908-002

Field's Stain A

Material Safety Data Sheet (MSDS)

1. Product and Company Identification

www.rxmarine.com

Product Name	RXSOL-60-6604-592
Product Type	FERROUS CHLORIDE TETRAHYDRATE
Revised date	

Company Details:

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

Stock Point : Mumbai, Kandla, Chennai, Visakhapatnam, Kolkata, Fujairah, Muscat Barka

Phone	+91 22 27815541 / 42
Fax	+91 22 2781 1318 ::::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / Information on ingredients

www.rxmarine.com

Substance / Preparation : FERROUS CHLORIDE (TETRAHYDRATE)
CAS No :13478-10-9 Substance Contains no other components
or impurities which will influence the classification of the product.

3. Hazards Identification

www.rxmarine.com

3.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : Xn; R22 C; R34 Hazard Class and Category Code(s), Regulation

(EC) No 1272/2008 (CLP) Health hazards : Skin corrosion - Category 1B - Danger

(CLP : Skin Corr. 1B) H314 Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315

Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318

Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302

3.2. Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s) : Xn : Harmful

R Phrase(s) : R22 : Harmful if swallowed.

R38: Irritating to skin. R34 : Causes burns..

R41 : Risk of serious damage to eyes.

S Phrase(s) : S26 : In case of contact with eyes,
rinse immediately with plenty of water and seek medical advice.

S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.

S45 : In case of accident or if you feel unwell, seek medical advice immediately
(show the label when possible). Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms

Signal words : Danger

Hazard statements : H314 : Causes severe skin burns and eye damage.

H302 : Harmful if swallowed.

H315 : Causes skin irritation. Precautionary statements

- Prevention : P280: Wear protective gloves, protective clothing, eye protection, face protection.

P260: Do not breathe dust, fume, gas, mist, vapours, spray. P264: Wash thoroughly after handling.

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

- Response : P302+P352: IF ON SKIN : Wash with plenty of soap and water.

P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.

P332+P313: If skin irritation occurs : Get medical advice.

P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes.

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

P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.

P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.

P363: Wash contaminated clothing before reuse.

- Storage : P405: Store locked up.

- Disposal considerations : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

3.3. Other hazards Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

4. First Aid Measures

www.rxmarine.com

4.1. Description of first aid measures

Inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor. Skin contact : Wash with plenty of soap and water.

If skin irritation occurs : Specific treatment (see on this label). Wash contaminated clothing before reuse.

Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor.

Eye contact : Rinse cautiously with water for several minutes. Immediately call a POISON CENTER or doctor.

Remove contact lenses, if present and easy to do. Continue rinsing. Ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. Call a POISON CENTER or doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms relating to use : Swallowing a small quantity of this material will result in serious health hazard.
Causes severe skin burns and eye damage. Causes skin irritation.

4.3. Indication of any immediate medical attention and special treatment needed

General information : Never give anything by mouth to an unconscious person.

If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting Measures

www.rxmarine.com

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Surrounding fires : Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

Thermal decomposition generates : Corrosive vapours.

5.3. Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection. Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6. Accidental Release Measures

www.rxmarine.com

6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders : Equip cleanup crew with proper protection. Ventilate area.

For non-emergency personnel : Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters.

Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Clean up methods : On land, sweep or shovel into suitable containers

. Minimize generation of dust. Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and Storage

www.rxmarine.com

7.1. Precautions for safe handling

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

Do not breathe dust, fume, gas, mist, vapours, spray. Wash contaminated clothing before reuse. Wash thoroughly after handling. Wash thoroughly after handling. Technical protective measures : Provide good ventilation in process area to prevent

formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place.

Keep container closed when not in use. Storage regulation : Comply with applicable regulations. Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight. .

7.3. Specific end use(s)

Specific end use(s) : None.

8. Exposure controls and personal protection

www.rxmarine.com

8.1. Exposure controls

Personal protection : Avoid all unnecessary exposure.

- Respiratory protection : Wear approved mask.
- Hand protection : Wear protective gloves.
- Skin protection : Wear suitable protective clothing.
- Eye protection : Chemical goggles or face shield.
- Others : When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

9. Physical and chemical properties

www.rxmarine.com

9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Solid.

Odour threshold : No data available.

pH value : Not applicable.

Melting point [°C] : 105 - 110 °C

Decomposition point [°C] : N/A

Critical temperature [°C] : N/A

Auto-ignition temperature [°C] : N/A

Flammability (solid, gas) : N/A

Flash point [°C] : N/A

Boiling point [°C] : N/A

Initial boiling point [°C] : N/A

Final boiling point [°C] : N/A

Evaporation rate : N/A

Vapour pressure [20°C] : N/A

Vapour pressure mm/Hg : 13.3

mm Hg at 693 °C

Vapour density : N/A

Density [g/cm³] : 1.93 g/cm³

Relative density, gas (air=1) : N/A

Relative density, liquid (water=1) : N/A

Solubility in water [% weight] : Soluble in water
Solubility in water : N/A
Log Pow octanol / water at 20°C : No data available.
Solubility : 2.5 at 100 g/l at 20
Viscosity at 40°C [mm²/s] : N/A
9.2. Other information
Explosive properties : N/A
Explosion limits - upper [%] : N/A
Explosion limits - lower [%] : N/A
Oxidising properties : No data available.

10. Stability and reactivity

www.rxmarine.com

10.1. Reactivity
Reactivity : Not established.
10.2. Chemical stability
Chemical stability : Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions
Hazardous reactions : Not established.
10.4. Conditions to avoid
Conditions to avoid : Direct sunlight.
Extremely high or low temperatures.
10.5. Incompatible materials
Materials to avoid : Strong acids. Strong bases.
10.6. Hazardous decomposition products
Hazardous decomposition products : Fumes.
Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.

11. Toxicological information

www.rxmarine.com

111.1. Information on toxicological effects Acute toxicity

- Inhalation : Based on available data, the classification criteria are not met.
- Dermal : Based on available data, the classification criteria are not met.
- Ingestion : Harmful if swallowed. Corrosion : Causes severe skin burns and eye damage. Causes serious eye damage.

Irritation : Causes skin irritation. Sensitization : Based on available data, the classification criteria are not met.
Mutagenicity : Based on available data, the classification criteria are not met.
Carcinogenicity : Based on available data, the classification criteria are not met.
Toxic for reproduction : Based on available data, the classification criteria are not met.
STOT-single exposure : Based on available data, the classification criteria are not met.
STOT-repeated exposure : Based on available data, the classification criteria are not met.
Aspiration hazard : Based on available data, the classification criteria are not met.

12. Ecological information

www.rxmarine.com

12.1. Toxicity

Toxicity information : Not established.

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

13. Disposal considerations

www.rxmarine.com

13.1. Waste treatment methods

General : Avoid release to the environment.

Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

14. Transport information

www.rxmarine.com

14.1. Land transport (ADR-RID)

Proper shipping name : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

UN N° : 3260 H.I. nr : 80

ADR - Class : 8

Labelling - Transport : 8 : Corrosive substance.

ADR - Classification code : C2

ADR - Group : III

ADR - Packing instructions : P002 R001 LP002

ADR - Limited Quantity : 5 KG

ADR - Tunnel code: E : Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

Proper shipping name : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

UN N° : 3260

IMO-IMDG - Class or division : 8 : Corrosive substance.

IMO-IMDG - Packing group : III
IMO- IMDG - Packing instructions : P002 LP02
IMO-IMDG - Limited quantities : 5 kg
IMO-IMDG - Marine pollution : No EMS-Nr : F-A S-B
14.3. Air transport (ICAO-IATA) [English only]
Proper shipping name : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
UN N° : 3260
IATA - Class or division : 8 : Corrosive substance.
IATA - Packing group : III
IATA - Passenger and Cargo Aircraft : ALLOWED -
Passenger and Cargo - Packing : 86
0 instruction - Passenger and Cargo - Maximum : 25 kg
Quantity/Packing IATA - Cargo only : ALLOWED -
Cargo only - Packing instruction : 864 -
Cargo only - Maximum Quantity/ : 100 kg
Packing IATA - Limited Quantities : 5 kg
ERG-Nr : 8L

15. Regulatory information

www.rxmarine.com

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Safety, health and environmental : Ensure all national/local regulations are observed. regulations/legislation specific for the substance or mixture REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions. REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

16. Other information

www.rxmarine.com

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December

2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC,

and amending Regulation (EC) No 1907/2006 Further information : None. In accordance with REACH Regulation (CE) N° 1907/2006 and with

CLP Regulation (CE) N° 1272/2008 DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are

reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of

handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not

assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

This Safety Data Sheet is provided by RXSOL. For the most current version of this document, please visit **varanasichemical.com**. This document is prepared in accordance with GHS / OSHA HazCom standards. The information contained herein is believed to be accurate but does not purport to be all-inclusive. It is the responsibility of the user to determine the suitability of this information for their application.