Material Safety Data Sheet

TPTZ Iron Reagent (RXSOL-62-6047-002)

1. Product and Company Identifaction

Product Name **TPTZ Iron Reagent**

Product Type **RXSOL-62-6047-002**

Company Details:

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

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2. Composition / informationon ingredients

Ingredients Conc.	(%)	CAS #	EC #
Hydroxylamine hydrochloride	1	5470?11?1	226?798?2
2,4,6?Tri (2?pyridyl)?1,3,5? triazine	1	3682?35?7	222?965?9
Hydrochloric acid	0.5	7647?01?0	231?595?7
Water	Q.S.	732?18?5	231?791?2

3. Hazards Identification

WHMIS

Classification

E (Corrosive)
D?2A (Very Toxic)

4. First Aid Measures

Eye contact	Immediately flush with copious quantities of water for a minimum of 15 minutes holding lids apart to ensure flushing of the entire surface. Seek immediate medical attention.
Skin contact	Remove the contaminated clothes and flush with plenty of water and soap. Seek medical attention is irritation symptoms persist.
Inhalation	If inhaled, remove patient to fresh air. If symptom persists, obtain medical attention.

Ingestion	Have conscious person drink several glasses of water or milk. DO NOT induce vomiting. Obtain medical attention immediately.

5. Fire-fighting Measures

Suitable extinguishing media:	Use extinguishing media appropriate to surrounding fire conditions.
Specific hazards arising from the chemical:	Hydrogen chloride.
Special protective actions for fire?fighters:	Wear adequate personal protection to prevent contact with material or it combustion products. Self?contained breathing apparatus with a full?face piece operated in a pressure demand or other positive pressure mode.

6. Accidental Release Measures

Person?related safety precautions:	Rubber or plastic gloves. Full face?shield or chemical splash goggles or face mask. Protective clothing, apron, rubber boots.
Measures for environmental protection:	DO NOT empty into drain.
Measures for cleaning/collecting:	Absorb spill with inert material such as clays, sand, earth, or vermiculate and place in closed container for disposal. Clean the spill area after product complete removal.

7. Handling and Storage

Store away from bases, reducing and oxidizing agent, sodium, fluoride, calcium carbide. Do not store with incompatible materials, even in case of spill. Store in cool, well?ventilated area. Keep containers closed and in upper position.

8. Exposure controls and personal protection

Protective clothing	Rubber or plastic gloves. Full face?shield or chemical splash goggles or face mask. Protective clothing, apron, rubber boots.
Engineering controls	General ventilation is recommended.

9. Physical and chemical properties

Appearance (physical state, color, etc) / Odor	Liquid. Odourless and Colourless.
Odor threshold	Not available
pH	2
Melting point / Freezing point	0 °C
Initial boiling point and boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper / Lower flammability	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Solubility	Miscible in water
Partition coefficient: n?octanol/water	Not available
Auto?ignition temperature	Not available

Decomposition temperature	Not available
Viscosity	Not available

10. Stability and reactivity

Instability conditions	This product is stable under normal conditions.
Conditions to avoid	Avoid high temperatures and contamination.
Materials to avoid	Alkalis, oxidizing and reducing agents, sodium, fluoride, calcium carbide, metals.
Hazardous decomposition products	Toxic gas of hydrogen chloride.
Hazardous polymerization	Does not polymerize

11. Toxicological information

Route of exposure	Conclusion / Remarks
Skin corrosion/irritation	Causes burns if he exposed area is not washed immediately.
Serious eye damage/irritation	Cause severe burns. May cause permanent damage.
Respiratory or skin sensitization	If inhaled, may cause nose and throat irritation.
Ingestion	If ingested burning of the mouth, pharynx and abdomen. Hydroxylamine hydrochloride Oral (LD50): Acute 400 mg/kg (mouse) Hydrochloric Acid Oral (LD50): Acute 900 mg/kg (rabbit) LC50: 3,124 ppm (rat ?1hr.)
Germ cell mutagenicity	Laboratory experiments have shown mutagenic effect of Hydroxylamine hydrochloride.
Carcinogenicity	Not available
Reproductive toxicity	Not available
STOT?single exposure	Not available
STOT?repeated exposure	Not available
Aspiration hazard	Not available
Acute toxicity	Corrosive! Harmful if ingested or inhaled. Causes severe burn
Chronic Overexposure	Laboratory experiments have shown mutagenic effect of Hydroxylamine hydrochloride. Target organ: blood.

12. Ecological information

Ecotoxicity	Not available
Mobility	Not available
Persistence and Degradability	Not available
Bioaccumulation potential	Not available

13. Disposal considerations

Disposal recommendations	Dispose of in an approved landfill in accordance with federal, provincial and local regulations.
Regulatory disposal information	Not available

14. Transport information

Reagent
TDG CLASS 8. PIN UN1789, HYDROCHLORIC ACID PG:III
Kit
TDG CLASS 9. PIN UN3316

15. Regulatory information

Not available

16. 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 we assume 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 Rx Marine International 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.