

Material Safety Data Sheet

1. Identification Of The Material

Product Name :Rust Remover
Product Origin :Made In Malaysia

Packed for :HardwareCity (S) Pte Ltd
Address :No. 2 Venture Drive,

Vision Exchange #08-02/03 (S) 608526

Telephone No. :62660802

Email :sales@hardwarecity.com.sg

2. Information On Ingredients

Ingredient Name Oxalic acid dehydrate Cas No. 144-62-7

Hydrochloric Acid Cas No.7664-39-3

Water.

HCL 25% UN Number 1789 & 1790

OX 30% DG Class 8 Water 45% Packing Group 11

> Hazchem Code 3R Poison Schedule S6

Recommended Use Rust Remover

3. Hazards identification

Acute Effects

Eyes Severe eye irritant .Highly corrosive to eyes.

Skin Highly corrosive to skin

Inhalation May cause irritation to mouth, nose, and throat. Ingestion Cause burn to mouth, throat and stomach.

Ingestion result in nausea ,vomiting , abdominal

Pain and convulsions. If swallowed can kill.

Chronic Effect Prolonged skin contact may cause chronic

Dermatitis.

Eyes Irritation with plenty of water for 15 minutes.

In all cases of eye contamination it is advisable to

seek medical advice

Skin Wash skin with plenty of water. If irritation persists

Seek medical advice.

Inhalation Not consider a feature of normal use. If irritation

Remove to fresh air.

If irritation persists seek medical advice.

Ingestion Rinse mouth with water. Give water to drink.

Do Not induce vomiting. Seek medical advice.

Treat symptomatically as for strong acid.

5. Fire Fighting Measures

Special Hazards Non- Combustible.

Extinguishing Media This product is non -flammable vend for fire in the

surrounding seethe appropriate extinguishing Method for the area. The product is highly acidic, avoid contact with metals to release hydrogen gas

And cause explosion.

Protective Equipment Self -contained breathing apparatus.

6. Accidental Release Measures

Spilling Cleanup Wash with plenty of water. Contained the spillage

And absorb with sand.

Personal Precaution Turn leak side up to prevent further leakage.
Environmental Do not discharge into the drain .Contained the

Spillage by using bonding. Seek authority for

Advice.

7. Handling And storage

Handling Requirement Avoid direct contact with eye and skin.

Always follow industrial safety practices.

Storage Condition Store in cool and dry place and keep container

Closed.

Suitable Packaging Must only keep in original container.

others Refer to State Regulation for storage and

Transportation requirements.

8. Exposure Controls

Work place Exposure Limits

Oxalic acid dehydrate OSHA PEL :5ppm (TWA)

TLV:2 ppm (TWA)

Hydrofluoric acid OSHA PEL: 3ppm (TWA)

TLV:0.5ppm(TWA)

Engineering Measures Must have well ventilated area to remove

HCL & HF vapor.

Respiratory protection Self -contained breathing apparatus must be

Available.

Eye protection Wear safety glasses , face shield , Viton rubber

Glove and impervious apparel. Avoid direct skin and eyes contact.

9. Physical And Chemical properties

Appearance clear Liquid Color Colorless

Odor Fragrance smell

PH 3 to 4
Boiling Point NA
Flash Point NA
Specific Gravity 1.02
Vapor Pressure NA
Solubility in water Soluble

10. Stability And Reactivity

Stability Stable at room temperature Condition to Avoid Do not mix with other chemical.

Hazardous Decomposition Heated may liberate hydrogen chloride and

of Product Hydrogen fluoride gases.

11. Toxicological information

Toxicity Data As Oxalic acid dehydrate : Oral rabbit LD50 :900mg / kg

As Hydrofluoric :IHL HMN LCLD : 50ppm/30min