

# Material Safety Data Sheet

May 2010

## 1.0 IDENTIFICATION

1.1 Product Name **Restore Rust Remover**

1.2 Supplier Shield Technology Ltd.,  
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## 2.0 COMPOSITION / INFORMATION ON INGREDIENTS

A near neutral pH liquid treatment for the removal of iron oxide from iron and steel.

| Chemical Name:                             | CAS No.   | %(active) | Risk Phrases |
|--------------------------------------------|-----------|-----------|--------------|
| 1-Hydroxy ethylidene-1,1-diphosphonic acid | 2809-21-4 | 5-10%     | R34          |
| NTA (3Na)                                  | 5064-31-3 | 10-15%    | R36/38       |

## 3.0 HAZARDS IDENTIFICATION

Physical/Chemical Hazards: IRRITANT

Environmental Hazards: None

Human Health Hazards: Irritating to eyes and skin Risk Phrases R36/38

## 4.0 FIRST AID MEASURES

4.1 Skin Contact: Remove contaminated clothing and wash with soap and water. If mild irritation persists seek medical attention. Wash contaminated clothing thoroughly before re-use

4.2 Eye Contact: Mild Irritation. Flush with large quantity of clean water for ten minutes. If irritation persists, seek medical attention.

4.3 Ingestion: Mild irritation to mouth. Drink plenty of water. If swallowed DO NOT INDUCE vomiting:

4.4 Inhalation: No known ill effects.

## 5.0 FIRE FIGHTING MEASURES

Product is NOT flammable.

Treat fires with dry chemical, foam, water spray or carbon dioxide.

Hazardous decompositions: Oxides of carbon (CO and CO<sub>2</sub>), Sulphur (SO<sub>2</sub>) and phosphorous (PO<sub>4</sub>)

Protective equipment: Protective clothing and self-contained breathing apparatus.

## 6.0 ACCIDENTAL RELEASE

Small spillages can be rinsed away to foul drain – diluting with plenty of water. Alternatively absorb spillage in inert material e.g. dry sand or earth and dispose of in accordance with local regulations.

## 7.0 HANDLING AND STORAGE

7.1 Handling: Avoid contact with skin and eyes. Wear safety glasses and protective rubber gloves. Before eating, drinking or smoking wash hands with soap and water.

7.2 Storage: Store in original packaging. Do not use the product in galvanized or zinc plated containers. Keep out of reach of children.

Store above 10°C. Do not allow to freeze. Do not mix with any other chemicals. Shelf life >12 months

7.3 Suitable Packaging: Polythene, polypropylene and stainless steel containers.

7.4 Unsuitable containers: Metals and alloys

## 8.0 EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Exposure Limits: Substance Trisodium nitrilo triacetic acid  
Long Term OEL ( 8hrs)  
Short Term OEL (15 min)

8.2 Respiratory protection: Not Applicable.

8.3 Personal Protection: Overalls, boots, rubber gloves.

8.4 Eye Protection: Chemical goggles or face shield.

## 9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance: Clear liquid  
9.2 Odour: Slight  
9.3 pH (1%) 5.7 - 6.2  
9.4 Relative Density 1.2  
9.5 Solubility Completely miscible.

## 10.0 STABILITY AND REACTIVITY

Stable under normal conditions of storage and use. May crystallize below 0°C.

Thermal decomposition: Oxides of carbon (CO and CO<sub>2</sub>), Sulphur (SO<sub>2</sub>) and phosphorous (PO<sub>4</sub>) formed.

Conditions to avoid: High temperatures and evaporation of water.

Materials to avoid: Normally uncreative.

Hazardous reactions: No known hazardous reactions.

Decomposition products: Oxides of carbon (Co and Co<sub>2</sub>), Sulphur (SO<sub>2</sub>) and phosphorous (PO<sub>4</sub>) formed.

## 11.0 TOXICOLOGICAL INFORMATION

Acute toxicity: Oral: Trisodium nitrilo triacetic acid LD<sub>50</sub> (Oral,Rat) 1000-200 mg/kg

Dermal: Trisodium nitrilo triacetic acid Mildly irritating

Inhalation: Not applicable

Eyes: Mild Irritant

## 12.0 ECOLOGICAL INFORMATION

Biodegradability and Persistence Substantially biodegradable. Phosphonate degrades to phosphate.

Ecotoxic effects: Near neutral pH

Other: The purpose of the product is to remove iron oxide. Therefore flush water will contain high levels of iron.

## 13.0 DISPOSAL

Methods of disposal: Small quantities can be disposed of via a foul drain. Larger quantities should be handled by a licensed contractor in accordance with waste Disposal Regulations.

## 14.0 TRANSPORT INFORMATION

Proper Shipping Name: Nil hazard for transport

14.1 Hazardous Class N/A

14.2 Packaging Group N/A

## **15.0 REGULATORY INFORMATION**

Neat undiluted product is classed as IRRITANT under CHIP regulations.

Risk Phrases R36/38 Irritating to eyes and skin.

Safety Phrases S2 Keep out of reach of children.

S24/25 Avoid contact with skin and eyes.

S28 After contact with skin, wash immediately with plenty of water.

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 and show this document.

## **16.0 OTHER INFORMATION**

These data are presented in good faith and are believed to be accurate. However it is for users to satisfy themselves as to the suitability of the product for their use, storage and transportation.

Sources of information used in compilation of this document include manufacturers' Material Safety Data Sheets and Labels, CHIP Approved Supply lists, Codes of Practice and Guidance Notes.