

SHIELD TECHNOLOGY LIMITED

SAFETY DATA SHEET

In compliance with Article 31 and Annex II of Regulation (EC) No. 1907/2006 (REACH), Regulation (EC) No. 1272/2008 (CLP) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Revision Date: September 2015

Product Name: Restore Rust Remover

Section 1: Identification of the substance/preparation and of the company/undertaking.

Application: Rust Removal

Manufacturer: Shield Technology Ltd
Unit 69 Grimsby Business Centre
King Edward Street
Grimsby DN31 3JH
United Kingdom

Telephone Number +44 (0)1472 360699

E-mail info@shieldtechnology.co.uk

Emergency Telephone Number 07743 300 454

Section 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification under CLP: This product has no classification under CLP

Classification (67/548/EEC or 1999/45/EC): Xi. R36. R37. R38

2.2. Label elements.

None

Signal Word: None

Hazard statements:

H302: Harmful if swallowed.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage

H319: Causes serious eye irritation

Precautionary statements:

P101: If medical advice is needed, have product container or label to hand.

P102: Keep out of reach of children.

P103: Read label before use.

P280: Wear protective gloves and eye protection.

P301+P310+P331: If Swallowed: Call poison centre/doctor. Do not induce vomiting.

2.3 Other hazards This product is not identified as a PBT substance

Section 3: Composition/Information on Ingredients

3.1 Mixture

Hazardous ingredients

Trisodium Nitrilo Triacetate	
Registration number (REACH)	01-2119519239-36-XXXX
EC Number	225-768-6
CAS	5064-31-3
Content %	< 15

CLP Classification Eye Irrit.2: H319: Skin Irrt. 2: H315

1-Hydroxyethylene-1,1-Diphosphonic Acid	
Registration number (REACH)	01-2119510391-53-XXXX
EC Number	220-552-8
CAS	2809-21-4
Content %	< 10

CLP Classification Acute Tox 4: H302: Eye Dam. 1: H318

Note, the percentage values of each ingredient are those found in the concentrate and NOT in the diluted form. It is the users responsibility to mix the concentrate with the correct amount of water as indicated on the product packaging.

Section 4: First Aid Measures

4.1. Description of first aid measures

Inhalation	Remove person from source of contamination, Supply person with fresh air and consult a doctor according to symptoms. If the person is unconscious, place in a stable side/recovery position and consult a doctor/medical help. If breathing becomes bubbly, have the casualty sit and provide oxygen if possible Transfer to hospital as soon as possible.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.
Eye contact	Remove any contact lenses. Thoroughly irrigate the eye with clean cool water for 15 minutes. Transfer to hospital for specialist attention.
Ingestion	Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. Consult doctor/medical assistance immediately-keep SDS available.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation	There may be a feeling of tightness in the chest and shortness of breath. Exposure may cause coughing or wheezing.
Skin contact	Prolonged contact with skin may cause irritation or pain. Blistering may occur
Eye contact	May cause eye irritation and redness. The eyes may water profusely. Corneal burns may occur.
Ingestion	There may be a soreness of the mouth and throat. There may be difficulty swallowing. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be vomiting.

Section 5: Fire Fighting Measures

5.1 Suitable extinguishing media

Carbon Dioxide, Dry Chemical powder, Foam

5.2 Special hazards arising from the substance or mixture.

Exposure hazards: Corrosive. In combustion emits toxic fumes.

5.3 Advice for firefighters.

In case of fire do not breathe fumes.

Protective respirator with independent air supply.

Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment & emergency procedures.

Surfaces may become slippery after spillage.

6.2 Environmental precautions.

Prevent fluid from entering the drainage or river system.

6.3 Methods and material for containment and cleaning up.

Soak up with a suitable absorbent material (e.g. Universal binding material, sand, diatomaceous earth) Wash down with large quantity of water.

6.4 Reference to other sections.

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

Section 7: Handling and Storage

7.1 Precautions for safe handling

Avoid direct contact with the substance.

7.1.1 General recommendations

Avoid contact with eyes and skin.

Do not carry cleaning rags or cloth which are soaked/impregnated with the product about clothing.

Observe the directions for use and instructions provided.

7.1.2 Notes on general hygiene measures at the workplace.

General hygiene measures for the handling of chemicals are applicable

Wash hands before breaks and at the end of work.

Keep away from food, drink and animal feedstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food and drink are consumed.

7.2 Conditions of safe storage

Store products closed and in original containers.

Store in a cool dry place.

STORAGE: Keep containers closed

Section 8: Exposure controls/personal protection

8.1 Control Parameters

No data available

8.2 Exposure controls



8.2.1 Appropriate engineering controls

No special measures needed.

Eye/face protection:

Safety goggles or Face shield. Ensure eye bath is available.

Hand protection:

No special precautions are needed beyond clean working conditions and safe handling practices. PVC or nitrile gloves may be suitable. If in doubt, gloves should be chosen in consultation with the glove supplier/manufacturer.

Other skin and body protection.

Wear suitable clothing as protection against splashing or contamination.

Hygiene measures

Wash hands after using and before eating, smoking or using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat or drink.

Respiratory protection

No special precautions are necessary unless ventilation is inadequate.

Environmental exposure controls

No special precautions are necessary.

Section 9: Physical and Chemical Properties

9.1 Appearance	Colourless liquid
9.2 Odour	Barely perceptible
9.3 pH	4
9.4 Relative Density	1.0 – 1.2
9.5 Solubility	Soluble in water.
9.6 Viscosity	Non viscous

(n/e = not established)

Other Information: No data available

Section 10: Stability and reactivity

10.1 Reactivity.

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Stable with proper storage and handling (store at ambient temperature).

10.3 Possibility of hazardous reactions

No dangerous reactions are known under recommended transport or storage conditions
Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid.

Heat, flames and other sources of ignition

10.5 Incompatible materials.

Avoid contact with strong bases. Strong oxidizing agents.

10.6 Hazardous decomposition products.

No data available

Section 11: Toxicological information.

Hazardous ingredients:

Trisodium Nitrilo Triacetate

ORL RAT LD50 1000-2000 mg/kg

1-Hydroxyethylene-1,1-Diphosphonic Acid

ORL RAT LD50 2400 mg/kg
SKN RBT LD50 >7000 mg/kg

11.1 Inhalation.

There may be a feeling of tightness in the chest and shortness of breath. Exposure may cause coughing or wheezing.

11.2 Skin contact.

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

11.3 Eye contact.

May cause eye irritation and redness. The eyes may water profusely. Corneal burns may occur.

11.4 Ingestion.

There may be a soreness of the mouth and throat. There may be difficulty swallowing. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be vomiting.

Section 12: Ecological information

12.1 Ecotoxicity:

Hazardous ingredients:

Trisodium Nitrilo Triacetate

Fish 96H LC50 >100 mg/l

12.2 Persistence and degradability:

No data

12.3 Bioaccumulative potential:

No data

12.4 Mobility in soil:

No Data

12.5 Results of PBT and vPvB assessment:

PBT identification: This product is not identified as a PBT substance

12.6 Other adverse effects:

Do not allow concentrated product to enter rivers or water courses

Section 13: Disposal considerations:

No special instructions for disposing of empty containers.

Recommendation: Pay attention to local and national official regulations

Section 14: Transport Information

14.1 This product does not require a classification for transport

Section 15: Regulatory information

15.1 EC dangerous substances/preparations classifications: Not regulated.

Symbol(s): None

Section 16: Other information

This safety data sheet is prepared in accordance with Commission Reg (EU) No. 453/2010

Risk phrases in full.

R36/37/38: Irritating to eye, respiratory system and skin.

Hazard statements in full.

H302: Harmful if swallowed

H315: Causes skin irritation

H318: Causes serious eye damage

H319: Causes serious eye irritation

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

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

Global Chemical Inventories

USA All components are on the US TCSA inventory or are exempt.

EU All components are in compliance with the EC seventh amendment Directive 92/32/EEC.

Japan All components are in compliance with the Chemical Substances Control Law of Japan.

Australia All components are in compliance with Chemical notification requirements in Australia.

Canada All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.

Korea All components are in compliance in Korea.

Philippines All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A.6969).

China All Components of this product are listed on the Inventory of existing Chemical Substances In China

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