



Safety Datasheet

Revision date: 08/02/2021

01 PRODUCT IDENTIFICATION

Trade Name:	V-WORX DERUST
Chemical abstract number:	N/A
Chemical family:	HF in Aqueous Solution
NIOSH number:	N/A
UN number:	N/A
Synonyms:	Textile Rust Remover

02 COMPANY INFORMATION

Manufacturers Name:	V-Worx (Pty) Ltd
Address:	Cosmo Business Park, Unit 66, Cosmo City, Johannesburg
Telephone Number	010 446 9891
Fax:	086 687 2549
e-Mail:	info@v-worx.co.za
Website:	www.v-worx.co.za

04 HAZARD IDENTIFICATION

- **Main Hazard:** Poison, corrosive. Avoid any direct contact.
- **Flammability:** No
- **Chemical Hazard:** Yes
- **Biological Hazard:** Yes
- **Reproductive Hazard:** Yes
- **Health effects - eyes:** Redness, pain, blurred vision.
- **Health effects - skin:** Serious skin burns not immediately apparent, causing deep tissue damage.
- **Health effects - ingestion:** Soar throat, abdominal pain, diarrhea, vomiting.
- **Health effects - inhalation:** Soar throat, coughing, labored breathing.
- **Carcinogenicity:** No
- **Mutagenicity:** Yes
- **Neurotoxicity:** No

05 COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NO.	Concentration:	3ppm Ceiling as F	R2; S7
Hydrogen Fluoride	7664-39-3	10-20	Threshold Limit	Classification:

06 FIRST AID MEASURES

Product in eye: Flush with water and seek medical advice if irritation develops.

Product on skin: Flush with water. Remove contaminated clothing and wash.

Product ingested: Drink 3-4 glasses of milk or water. Do not induce vomiting. Seek medical attention immediately.

Product inhaled: Remove to fresh air. If breathing difficult, seek medical attention.

07 FIRE FIGHTING MEASURES

Extinguisher Agents: Wash with water and seek immediate medical attention. Violent exothermic reaction occurs with water.

Special hazards: Full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

Protective Clothing: Full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

08 HANDLING AND STORING

Handling: Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Use only with adequate ventilation. Remove and wash contaminated clothing and footwear before re-use. Wash thoroughly after handling. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue.

Storage: Store in original, labelled and closed container in a cool, dry, well-ventilated area away from sun and foodstuffs.

Occupational Exposure Limits: OSHA Permissible Exposure Limit (PEL): 3ppm (TWA).

Engineering Control Measures: Local and/or general exhaust is recommended.

Personal Protection - respiratory: If the exposure limit is exceeded, a full face-piece respirator with an acid gas cartridge may be worn up to 50 times the exposure limit.

Personal Protection - hand: Wear polyvinyl chloride (PVC) or neoprene gloves.

Personal Protection - eyes: Use chemical safety goggles where splashing is possible.

Personal Protection - skin: Wear coveralls with long sleeves, gauntlets and gloves.

Other Protection: Prevent skin contact.

09 CHEMICAL AND PHYSICAL PROPERTIES

- **Appearance:** Liquid
- **Odour:** Acidic
- **Colour:** Clear
- **pH:** 1.00
- **Boiling Point:** 108°
- **Melting Point:** -36°C
- **Flash Point:** N/A
- **Flammability:** No
- **Auto Flammability:** No
- **Explosive Properties:** None
- **Oxidizing Properties:** Yes
- **Vapour Properties:** 25 @ 20°C
- **Density:** 1.02 g/ml
- **Solubility in water:** Complete
- **Solubility Solvent:** Slight
- **Solubility Coefficient:** N/A
- **Neurotoxicity:** No
- **Specific Gravity:** N/A

10 STABILITY AND REACTIVITY

- **Conditions to avoid:** Moisture and incompatibles.
- **Incompatible Materials:** Arsenic trioxide, phosphorus pentoxide, ammonia, calcium oxide, sodium hydroxide, sulphuric acid, vinyl acetate, ethylenediamine, acetic anhydride, alkalis, organic materials, most common metals, rubber, leather, water, strong bases, carbonates, sulphides, cyanides, oxides of silicon, especially glass, concrete, silica, fluorine. Will also react with steam or water to produce toxic fumes

11 TOXICOLOGICAL INFORMATION

- **Acute Toxicity: Inhalation rate LC50:** 1276ppm/1H
- **Skin and eye contact:** No information found
- **Chronic toxicity:** No information found
- **Carcinogenicity:** No
- **Mutagenicity:** Possible
- **Reproductive hazard:** No

12 ECOLOGICAL INFORMATION

- **Aquatic toxicity** - fish: 60 ppm/*/Fish/Lethal/Fresh Water time period not specified.
- **Aquatic toxicity** - daphnia: >300ppm/48hr./Shrimp/LC50/Aerated Saltwater
- **Aquatic toxicity** - algae: No information found
- **Biodegradability:** Ph is .6.5, soil can bind fluorides tightly.
- **Bio-accumulation:** Possible
- **Mobility:** No
- **German wgk:** N/A

13 DISPOSAL CONSIDERATION

- **Disposal methods:** Handle as hazardous chemical waste. Dispose in accordance with local regulations.
- **Disposal of packaging:** Incinerate

14 TRANSPORT INFORMATION

UN No.: UN1790

Substance Identity no.: N/A

ADR/RI class: N/A

ADR/RID item no.: N/A

ADR/RID hazard identity no.: N/A

IMDG-shipping name: N/A

IMDG-class: N/A

IMDG-packaging group: N/A

IMDG-marine pollutant: Yes

IMDG-EMS no.: N/A

IMDG-MFAG table no.: N/A

IATA - shipping name: Hydrofluoric Acid (with not more than 60% strength)

IATA-class: 8, 6.1

IATA - subsidiary risk(s): R2; S7

ADNR - class: 11

UK-emergency action class: N/A

Tremcard no.: N/A

15 REGULATORY INFORMATION

- **EEC hazard classification:** N/A
- **Risk phases:** S2
- **Safety phases:** S7
- **National legislation:** N/A

16 OTHER INFORMATION

Colour: Yellow

pH: 10-11

Boiling Point: N/A

Melting Point: No information found

Flash Point: None

Flammability: No

Auto flammability: No

Explosive Properties: None

Oxidizing Properties: None

Vapour Pressure: No information found

Density: 1.02~g/ml

Solubility in Water: Complete

Solubility Solvent: No

Solubility Coefficient: N/A

Neurotoxicity: No

Specific Gravity: 1.025 1.035 Kg/1

16 TOXICOLOGICAL INFORMATION

Aquatic toxicity: No information found

Skin and eye contact: No information found

Chronic toxicity: No information found

Carcinogenicity: No

Mutagenicity: No

Reproductive hazard: No

17 ECOLOGICAL INFORMATION

Aquatic toxicity - fish: No information found

Aquatic toxicity - daphnia: No information found

Aquatic toxicity - algae: No information found

Biodegradability: Yes

Bio-accumulation: No

Mobility: No

German wgk: N/A

18 DISPOSAL CONSIDERATIONS

Disposal methods: Do not dispose into sewers or water systems. Hold for disposal.

Disposal of packaging: Dispose in accordance to local regulations. Incinerate or dispose at approved sites. Do not reuse for other uses

19 TRANSPORTATION INFORMATION

UN No.: N/A

Substance identity no.: N/A

ADR/RID class: N/A

ADR/RID item no.: N/A

ADR/RID hazard identity no.: N/A

IMDG-shipping name: N/A

IMDG class: N/A

IMDG packaging group: N/A

IMDG marine pollutant: N/A

IMDG EMS no.: N/A

IMDG-MFAG table no.: N/A

IATA - shipping name: N/A

IATA - class: N/A

IATA subsidiary risk(s): Not listed

ADNR class: N/A

UK emergency action class: N/A Tremcard no.: N/A

20 REGULATORY INFORMATION

EEC hazard classification: N/A

Risk phases: R25; R36

Safety phases: S2; S25

National legislation: N/A

21 OTHER INFORMATION

N/A N/A

To the best of our knowledge, the information contained herein is correct. We do not assume any liability for the consequences of its use since the information may be applied under conditions beyond our control and with which we may be unfamiliar, and since data made available following the issuance of this document could suggest modification of the information. Final determination of the suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. All materials may present unknown hazards and should be used with caution.

We believe that the product referred to herein, will perform the function/s for which they are intended. but do not, in any way guarantee or warrant that they will do so, as conditions of actual use are beyond our control, under no circumstances shall we be liable for any consequential loss of profits arising from their use.

N/A = Not Available