

**RUSFRE®**RUSFRE  
604 McGEACHIE DRIVE  
MILTON, ONTARIO, L9T 3Y5**PRODUCT: RF 1002 RUST REMOVER****SECTION 01: IDENTIFICATION**

Initial supplier identifier..... RUSFRE  
604 McGeachie Drive  
Milton  
Ontario  
L9T 3Y5

Product identifier..... RF 1002 RUST REMOVER

Recommended use and restrictions on .. Rust remover.  
use

Chemical family..... Aqueous mixture.

NFPA rating..... Health: 1 Fire: 1 Reactivity: 0.

HMIS..... H: 1 F: 1 R: 0.

24 hour emergency number..... For transportation emergencies (in Canada) call CANUTEC 1-888-226-8832 (CAN-UTEC);  
IN THE UNITED STATES CALL CHEMTREC 1-800-424-9300.  
\*\* For medical emergencies contact your local poison control centre \*\*.

**SECTION 02: HAZARD IDENTIFICATION**

Signal Word..... Not a classified or a controlled product.

Hazard Classification..... Not classified.

Hazard Description..... Not classified.

Prevention..... No special precautions necessary. See section 7 and 8.

Response ..... See section 4 and 11.

Storage..... See section 7.

Disposal..... See section 13.

Note ..... This product mixture has been classified based on its ingredients.

**SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
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THIS IS NOT A CONTROLLED PRODUCT UNDER W.H.M.I.S.

**SECTION 04: FIRST-AID MEASURES**

Eye contact..... In case of contact, immediately flush eyes, keeping eyelids open, with plenty of water for at least 15 minutes. Consult a physician if irritation continues.

Skin contact..... Flush affected area with water for at least 15 minutes. If irritation persists, seek medical attention. Remove contaminated clothing and launder before reuse.

Inhalation..... If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention.

Ingestion..... If ingestion is suspected, contact physician or poison control center immediately. Do not induce vomiting. If spontaneous vomiting occurs have victim lean forward with head down to prevent aspiration of fluid into the lungs. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, ..... May cause mild skin irritation. May cause slight eye irritation.  
whether acute or delayed

Additional information..... Treat victims symptomatically. Use good hygiene practices. In the event of an incident involving this product ensure that medical authorities are provided a copy of this safety data sheet.

**SECTION 05: FIRE-FIGHTING MEASURES**

Suitable extinguishing media..... "Alcohol" foam, CO<sub>2</sub>, dry chemical. In cases of larger fires, water spray should be used. Do not use water in a jet.

Specific hazards arising from the ..... Oxides of carbon (CO, CO<sub>2</sub>). Oxides of phosphorous. During fire, gases hazardous to  
hazardous product, such as the nature of health may be formed.

Special protective equipment and ..... Firefighter should be equipped with self-contained breathing apparatus and full protective  
precautions for fire-fighters clothing to protect against potentially toxic and irritating fumes. Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosive rupture. Keep run-off water from entering sewers and other waterways. Dike for water control.

**PRODUCT: RF 1002 RUST REMOVER****SECTION 06: ACCIDENTAL RELEASE MEASURES**

Methods and materials for containment and cleaning up

Leak/spill.....

Ventilate. Eliminate all sources of ignition. Avoid all personal contact. Wear proper protective equipment. Evacuate all non-essential personnel. Contain the spill. Prevent runoff into drains, sewers, and other waterways. Absorb with an inert dry material and place in an appropriate waste container. Spilled material and water rinses are classified as chemical waste, and must be disposed of in accordance with current local, provincial, state, and federal regulations.

Personal precautions, protective equipment and emergency procedures

Isolate area and keep unauthorized people away. Do not walk through spilled material. Wear recommended protective equipment. Ventilate. Open windows and doors to allow air circulation. Dike area to prevent spreading. The use of absorbent socks or spill pillows may be required. Stop leak if safe to do so. Prevent runoff into drains, sewers, and other waterways.

**SECTION 07: HANDLING AND STORAGE**

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks, and open flames. Keep container closed when not in use. Store away from oxidizing and reducing materials. Store away from sunlight. Store in a cool and dry place, for product integrity.

Precautions for safe handling.....

Keep away from heat, sparks, and open flame. Avoid all skin contact and ventilate adequately, otherwise wear an appropriate breathing apparatus. Avoid breathing vapours or mist. Handle and open container with care. Employees should wash hands and face before eating or drinking.

**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
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Personal Protective Equipment

Respiratory/type.....

Avoid breathing vapours. Local exhaust ventilation is recommended. In case of insufficient ventilation, wear suitable respiratory equipment. An approved air purifying respirator with organic vapour cartridges and particulate prefilter can be used to minimize exposure.

Eye/type.....

Chemical safety goggles. Chemical safety goggles and full faceshield if splash hazard exists.

Gloves/ type.....

Wear skin protection equipment. The selection of skin protection equipment depends on the nature of the work to be performed.

Clothing/type.....

Wear adequate protective clothes.

Footwear/type.....

Safety boots per local regulations.

Other/type.....

Emergency showers and eye wash stations should be available. Employees should wash their hands and face before eating, drinking, or using tobacco products.

Appropriate engineering controls.....

Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits. Local mechanical exhaust ventilation should be used at sources of air contamination, such as open process equipment, or during purging operations, to capture gases and fumes that may be emitted. Standard reference sources regarding industrial ventilation (ie. ACGIH industrial ventilation) should be consulted for guidance about adequate ventilation.

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance/Physical state.....

Liquid.

Colour.....

No data.

Odour.....

Characteristic odour.

Odour threshold (ppm).....

Not available.

pH.....

No Data.

Melting / Freezing point (deg C).....

< 0 °C.

Initial boiling point / boiling range (deg C).....

> 100° C.

Flash point (deg C), method.....

62 C. (estimate; lowest flash point ingredient).

Evaporation rate.....

Not available.

Flammability (solids and gases).....

Not applicable.

Upper flammable limit (% vol).....

No data.

Lower flammable limit (% vol).....

No data.

Vapour pressure (mm Hg).....

No data.

Vapour density (air=1).....

>1.

Density.....

0.872.

Pounds / USG.....

7.28. lbs/USG.

Solubility.....

Soluble.

Partition coefficient — n-octanol/water.....

Not available.

Auto ignition temperature (deg C).....

No data.

Decomposition temperature.....

Not available.

**PRODUCT: RF 1002 RUST REMOVER****SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Viscosity..... No data.  
 % Volatile by volume..... 79.2.  
 VOC (less water)..... 2.31 lbs/USG.

**SECTION 10: STABILITY AND REACTIVITY**

Reactivity ..... Product is stable; hazardous polymerization will not occur.  
 Chemical stability..... Stable at normal temperatures and pressures.  
 Possibility of hazardous reactions..... Hazardous polymerization will not occur.  
 Conditions to avoid, including static ..... Avoid heat, spark, open flames.  
 discharge, shock or vibration  
 Incompatible materials..... Strong oxidizing agents.  
 Hazardous decomposition products..... By fire: Oxides of carbon (CO,CO2). Phosphoric acid fumes.

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
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Route of exposure..... Eye contact. Skin contact. Inhalation.  
 Effects of acute exposure  
 Skin contact..... May cause skin irritation.  
 Eye contact..... May cause eye irritation. Symptoms include tearing and reddening.  
 Inhalation (acute)..... Inhalation of vapors at elevated temperatures may cause irritation.  
 Ingestion..... May be harmful if swallowed. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea. Aspiration of material into lungs can cause chemical pneumonitis which can be fatal.  
 Effects of chronic exposure..... Not expected to cause any adverse chronic health effects.  
 Carcinogenicity of material..... None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.  
 Reproductive effects..... No component of this product present at levels greater than or equal to 0.1% .

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity..... Product data not available.  
 Persistence and degradability..... Product data not available.  
 Bioaccumulative potential..... Product data not available.  
 Mobility in soil..... Miscible in water. May spread in water systems.  
 Other adverse effects..... Do not allow to enter waters, waste water or soil.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Information on safe handling for disposal and methods of disposal, including any contaminated packaging . Dispose of waste in accordance with all applicable Federal, Provincial/State and local regulations.

**SECTION 14: TRANSPORT INFORMATION**

TDG Classification..... Not regulated.  
 DOT Classification (Road)..... Special precautions: Not DOT Regulated for Domestic Ground Transportation in non-bulk containers.  
 IATA Classification (Air)..... Not regulated. Do not ship by air without checking appropriate IATA regulations.  
 IMDG Classification (Marine)..... Not regulated.  
 Marine Pollutant..... No.  
 Proof of Classification..... In accordance with Part 2.2.1 of the Transportation of Dangerous Goods Regulations (July 2, 2014) - we certify that classification of this product is correct. .

**SECTION 15: REGULATORY INFORMATION**

CEPA status..... On Domestic Substances List (DSL).  
 TSCA inventory status..... All components are listed.  
 OSHA..... This product is considered hazardous under the OSHA Hazard Communication Standard.  
 SARA Title III  
 Section 302 - extremely hazardous ..... None.  
 substances  
 Section 311/312 - hazard categories..... Fire hazard.  
 Section 313..... None.  
 EPA hazardous air pollutants (HAPS) ..... None.  
 40CFR63

**PRODUCT: RF 1002 RUST REMOVER****SECTION 15: REGULATORY INFORMATION**

California Proposition 65..... This product does not contain any chemical(s) known to the State of California to cause cancer or reproductive toxicity. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**SECTION 16: OTHER INFORMATION**

Prepared by: ..... REGULATORY AFFAIRS. Trivalent Data Systems Ltd. [www.trivalent.com](http://www.trivalent.com).  
 Telephone number:..... (800) 387-7981.  
 Disclaimer:..... DISCLAIMER: All information appearing herein is based upon data obtained from experience and recognized technical sources. To the best of our knowledge, it is believed to be correct as of the date of issue but we make no representations as to its accuracy or sufficiency and do not suggest or guarantee that any hazards listed herein are the only ones which exist. The hazard information contained herein is offered solely for the consideration of the user, subject to his own investigation and verification of compliance with applicable regulations, including the safe use of the product under every foreseeable condition. The information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

Review Date:..... 2022-11-30.  
 Date of the latest revision of the safety .. 2019-04-01  
 data sheet