

SAFETY DATA SHEET

Rust Remover

UNICARE (CHEMICALS) LTD

1 Identification

Product Identifier:

Rust remover

Other means of identification:

No available data.

Recommended use of the chemical and restriction on use:

To remove rust form metallic surfaces.

Supplier's details:

Unicare (Chemicals) Ltd,
Aradhippou Industrial Area 7101, Larnaca, Cyprus
P.O Box 54088

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Email: team@unicaregroup.com

Emergency phone number

1401

2 Hazard(s) identification

Classification of the substance or mixture

According to regulation (EC) No 1272/2008 [CLP]

Acute Toxicity: Hazard Category 4

Skin corrosion / Irritation: Hazard Category 1

GHS Label Element



Signal Word:

Danger

Hazard Statements:

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

Precautionary Statement

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash your hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/physician.

P363: Wash contaminated clothing before reuse.

P405: Store locked up.

P501: Dispose of contents/container to waste according to national / local regulations.

Other hazards which do not result in classification

Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

Mixture

Description	- CAS Number - EINECS Number - Reach registration number	Concentration (% w/w)	Note / Classification
Ammonium hydrogen difluoride	- 1341-49-7 - 215-676-4 - N/A	14-16	Acute Tox. (oral) 3: H301, Skin Corr. 1: H314
Isopropyl alcohol	- 67-63-0 - 200-661-7 - N/A	2 - 3	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

4 First-aid measures

Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Immediately wash thoroughly with plenty of water and consult a skin specialist.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms/effects, acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.

Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5 Fire-fighting measures

Extinguishing media

Flash Point & Method

None

Suitable Extinguishing Media

Pulverized water, foam, dry chemical & carbon dioxide

Specific hazards arising from the chemical

Carbon monoxide, carbon dioxide, formaldehyde, as well as other toxic vapours and gases which are common to thermal degradation (in case of fire) of organic compounds.

Special protective actions for fire-fighters

Wear self-contained breathing apparatus and full protective gear.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Information regarding personal protective measures see Section 8.

Environmental precautions

No special precautions required.

Methods and materials for containment and cleaning up

For residues: Pick up with suitable absorbent material.

Large Spillages: Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Avoid the spillage or runoff entering watercourses. Flush away spillage with plenty of water.

Dispose of absorbed material in accordance with regulations.

For large amounts: Dike spillage. Pump off product.

7 Handling and storage

Precautions for safe handling

No special measures necessary provided product is used correctly.

Protection against fire and explosion

No special precautions necessary.

Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and in a cool place.

Storage stability:

Storage temperature: 10 - 40 °C

The packed product is not damaged by low temperatures or by frost. Bulk must be protected from solidification.

Protect from temperatures above: 70 °C

Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

8 Exposure controls/personal protection

Control parameters

Ingredients with limit values that require monitoring at the workplace: Isopropanol

Isopropanol (CAS:67-63-0)		
ACGIH	ACGIH TWA (ppm)	200 ppm
ACGIH	ACGIH STEL (ppm)	200 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	980 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	400 ppm

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration

TWA: Time-Weighted Average concentration

STEL: Short Term Exposure Limit

PEL: Permissible Exposure Limit

Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. (Particle filter EN 143 P2 or FFP2)

Hand protection:

Chemical resistant protective gloves. (EN 374)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):

e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other.

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Wearing of closed work clothing is required additionally to the stated personal protection equipment. No eating, drinking, smoking or tobacco use at the place of work.

Handle in accordance with good industrial hygiene and safety practice.

9 Physical and chemical properties

General Information

- **Appearance:**
 - Form:** Liquid
 - Colour:** Clear
- **Odour:** characteristic

- **Odour threshold:** Not determined
- **pH-value:** 5 – 6
- **Specific gravity:** 1.03 – 1.04
- **Change in condition**
 - Melting point/Melting range:** Not determined
 - Boiling point/Boiling range:** Not determined
- **Flash point:** Not determined
- **Flammability (solid, gaseous):** Not applicable
- **Ignition temperature:** Not applicable
- **Decomposition temperature:** Not determined
- **Self-igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
 - Lower:** Not determined.
 - Upper:** Not determined.
- **Vapour pressure at 20 °C:** Not determined
- **Density at 20 °C:** Not determined
- **Relative density:** Not determined
- **Solubility in / Miscibility with water:** Miscible
- **Partition coefficient (n-octanol/water):** Not determined
- **Viscosity:**
 - Dynamic:** Not determined
 - Kinematic:** Not determined

10 Stability and reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability

No specific test data related to reactivity available for this product or its ingredients.
The product does not contain peroxides (or any other explosive chemicals).

Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

Conditions to avoid

See SDS Section 7 - Handling and storage.

Incompatible materials

Substances to avoid:

Strong acids, strong bases, halogens, reactive chemicals

Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

11 Toxicological information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

Toxicological (health) effects

Acute toxicity: Assessment: Harmful if swallowed.

Skin corrosion/irritation: Assessment: Causes severe skin burns.

Serious eye damage/irritation: Assessment: Causes serious eye damage.

Respiratory or skin sensitisation: Assessment: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Assessment: Based on available data, the classification criteria are not met.

Carcinogenicity: Assessment: Based on available data, the classification criteria are not met.

Reproductive toxicity: Assessment: Based on available data, the classification criteria are not met.

STOT-single exposure: Assessment: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Assessment: Based on available data, the classification criteria are not met.

Aspiration hazard: Assessment: No aspiration hazard expected.

Symptoms related to the physical, chemical and toxicological characteristics: Not available data.

Numerical measures of toxicity (such as acute toxicity estimates): Not available data.

Toxicological Data: Isopropyl Alcohol (2-Propanol) (CAS: 67-63-0)

LD₅₀ oral rat:

5045 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 5840 mg/kg body weight; Rat)

LD₅₀ dermal rabbit:

12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit)

LC₅₀ inhalation rat (mg/l):

73 mg/l/4h (Rat)

ATE US (oral):

5045.000 mg/kg body weight

ATE US (dermal):

12870.000 mg/kg body weight

ATE US (vapours):

73.000 mg/l/4h

ATE US (dust, mist):

73.0 /l/4h

Toxicological Data: Ammonium hydrogen difluoride (CAS: 1341-49-7)

Acute toxicity:

No data available

Skin corrosion/irritation:

No data available

Serious eye damage/eye irritation:

No data available

Respiratory or skin sensitisation:

No data available

Germ cell mutagenicity:

No data available

Carcinogenicity:

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Ammonium bifluoride)

Reproductive toxicity:

No data available

Specific target organ toxicity - single exposure:

No data available

Specific target organ toxicity - repeated exposure:

No data available

Aspiration hazard:

No data available

Additional Information:

RTECS: BQ9200000; Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Cough, shortness of breath, headache and nausea.

12 Ecological information

Toxicity:

Eco toxicity

No relevant information.

Persistence and Degradability

No relevant information available.

Bioaccumulation

No relevant information available.

Mobility in soil

No relevant information available.

Other Adverse Effects

No data available.

Ecological Data: Isopropyl Alcohol (2-Propanol) (CAS: 67-63-0)

LC50 Fish 1:

4200 mg/l (96 h; Rasbora heteromorpha; Flow-through system)

EC50 Daphnia 1:

> 10000 mg/l (48 h; Daphnia magna)

LC50 Fish 2:

9640 mg/l (96 h; Pimephales promelas; Lethal)

EC50 Daphnia 2:

13299 mg/l (48 h; Daphnia magna)

Threshold Limit Algae 1:

> 1000 mg/l (72 h; Scenedesmus subspicatus; Growth rate)

Threshold Limit Algae 2:

1800 mg/l (72 h; Algae; Cell numbers)

Ecological Data: Ammonium hydrogen difluoride (CAS: 1341-49-7)

Toxicity:

No data available

13 Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible.

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

14 Transport information

UN Number: ADR/RID, IMDG, IATA: 1760

UN Proper Shipping Name: ADR/RID, IMDG, IATA: Corrosive materials: Ammonium hydrogen difluoride

Transport hazard class(es): 8

Packing group, if applicable: II

Environmental hazards: No danger

Special precaution for user: Danger: corrosive materials

Transport in bulk according to Annex II of Marpol 73/78 and the IBCcode: Not applicable.

15 Regulatory information

Safety, health and environmental regulations specific for the product in question

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I:** None of the ingredients is listed.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16 Other information

Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

PBT: Persistent, Bioaccumulative and Toxic

VOC: Volatile Organic Compounds (USA, EU)

vPvB: very Persistent and very Bioaccumulative

H225: Highly flammable liquid and vapor.

H301: Toxic if swallowed.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

Flam. Liq. 2: Flammable liquid; Hazard Category 2

Eye Dam. 1: Serious eye damage / eye irritation; Hazard Category 1

Eye Irrit. 2: Serious eye damage / eye irritation; Hazard Category 2

Skin Corr. 1: Skin Corrosion / irritation; Hazard Category 1

Acute Tox. 3 (oral): Acute oral toxicity; Hazard Category 3

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3