

Synthetic Labs professional grade detergents & solutions according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Supersedes: 01/02/2018 Supersedes: 06/12/2017 Revision date: 01/02/2018 Supersedes: 06/12/2017 Version: 2.4

| SECTION 1: Identification | |
|---|--|
| 1.1. Identification | |
| Product form | : Mixture |
| Trade name | : Rust X |
| Product code | : 1202 |
| 1.2 Decommonded use and restrictions | |
| 1.2. Recommended use and restrictions Recommended use | : Rim cleaner (includes wheel cleaners) |
| | |
| 1.3. Supplier | |
| Synthetic Labs 24 Victory Lane Dracut, MA 01826 - United States T 800.255.4050 - F 978.957.5122 www.syntecpro.com | |
| 1.4. Emergency telephone number | |
| Emergency number | : Infotrac 24 Hour Medical Emergency Number: 1-800-535-5053 |
| SECTION 2: Hazard(s) identification | |
| 2.1. Classification of the substance or m | ixture |
| GHS US classification | |
| Corrosive to metals Category 1 Skin corrosion/irritation Category 1A Serious eye damage/eye irritation Category 1 | May be corrosive to metals Causes severe skin burns and eye damage Causes serious eye damage |
| 2.2. GHS Label elements, including prec | autionary statements |
| GHS US labeling | |
| Hazard pictograms (GHS US) | |
| Signal word (GHS US) | : Danger |
| Hazard statements (GHS US) | May be corrosive to metals Causes severe skin burns and eye damage Causes serious eye damage |
| Precautionary statements (GHS US) | Keep only in original container. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands, forearms and face thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. Specific treatment (see supplemental first aid instruction on this label). Wash contaminated clothing before reuse. Absorb spillage to prevent material-damage. Store locked up. Store in corrosive resistant container with a resistant inner liner. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |

2.3. Other hazards which do not result in classification

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2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|-----------------------------|---------------------|--------|--|
| Phosphoric Acid | (CAS-No.) 7664-38-2 | 5 – 10 | Met. Corr. 1, H290 Skin Corr. 1, H314 Eye Dam. 1, H318 |
| Ammonium Hydrogendifluoride | (CAS-No.) 1341-49-7 | 1 – 5 | Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Eye Dam. 1, H318 |

Full text of hazard classes and H-statements : see section 16

| SECTIO | ON 4: First-aid measures | |
|----------------|--|--|
| 4.1. | Description of first aid measures | |
| First-aid | d measures general | : Call a physician immediately. |
| First-aid | d measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid | d measures after skin contact | : In case of skin contact, wearing rubber gloves rub 2.5% calcium gluconate gel continuously into the affected area for 1.5 hours or until further medical care is available. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately. |
| First-aid | d measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid | d measures after ingestion | : Rinse mouth. Do not induce vomiting. Call a physician immediately. |
| 4.2. | Most important symptoms and effects | s (acute and delayed) |
| Sympto | oms/effects after skin contact | : Burns. |
| Sympto | oms/effects after eye contact | : Serious damage to eyes. |
| Sympto | oms/effects after ingestion | : Burns. |
| 4.3. | Immediate medical attention and spec | cial treatment, if necessary |
| Treat syr | nptomatically. | |
| SECTIO | ON 5: Fire-fighting measures | |
| 5.1. | Suitable (and unsuitable) extinguishir | ng media |
| Suitable | e extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
| 5.2. | Specific hazards arising from the che | mical |
| Hazard fire | ous decomposition products in case of | : Toxic fumes may be released. |
| 5.3. | Special protective equipment and pre | cautions for fire-fighters |
| Protecti | ion during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
| SECTION | ON 6: Accidental release measu | ures |
| 6.1. | Personal precautions, protective equi | pment and emergency procedures |
| 6.1.1. | For non-emergency personnel | |
| Emerge | ency procedures | : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. |
| 6.1.2. | For emergency responders | |
| Protecti | ive equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| 6.2. | Environmental precautions | |
| Avoid rel | ease to the environment. | |
| 6.3. | Methods and material for containmen | t and cleaning up |
| Method | ls for cleaning up | : Take up liquid spill into absorbent material. |
| 07/14/20 | 020 | EN (English US) 2/8 |

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|--|

| Other information | : Dispose of materials or solid residues at an authorized site. |
|--|--|
| 6.4. Reference to other sections | |
| For further information refer to section 13. | |
| SECTION 7: Handling and storage | |
| 7.1. Precautions for safe handling | |
| Precautions for safe handling | : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. |
| Hygiene measures | : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |
| 7.2. Conditions for safe storage, including | ng any incompatibilities |
| Storage conditions | : Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store locked up. Store in a well-ventilated place. Keep cool. |
| Incompatible materials | : Metals. |

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Rust X | | |
|--|------------------------------|--|
| No additional information available | | |
| Ammonium Hydrogendifluoride (1341-49-7) | | |
| USA - ACGIH - Occupational Exposure Limits | | |
| ACGIH TWA (mg/m³) | ≈ 2.5 fibers/cm ³ | |
| USA - OSHA - Occupational Exposure Limits | | |
| OSHA PEL (TWA) (mg/m³) | ≈ 2.5 mg/m³ | |
| Phosphoric Acid (7664-38-2) | | |
| USA - ACGIH - Occupational Exposure Limits | | |
| Local name | Phosphoric acid | |
| ACGIH TWA (mg/m ³) | 1 mg/m³ | |
| ACGIH STEL (mg/m ³) | 3 mg/m³ | |
| Remark (ACGIH) | URT, eye, & skin irr | |
| USA - OSHA - Occupational Exposure Limits | | |
| Local name | Phosphoric acid | |
| OSHA PEL (TWA) (mg/m ³) | 1 mg/m³ | |

| 8.2. | Appropriate engineering controls | |
|--------|----------------------------------|---|
| Approp | priate engineering controls | : Store in original container. Store in tightly closed, properly ventilated containers away from heat, sparks, open flame. Ensure good ventilation of the work station. |
| Enviro | nmental exposure controls | : Avoid release to the environment. |

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Materials for protective clothing:

complete protective suit against chemicals. acid-resistant protective clothing

Hand protection:

Protective gloves

Eye protection:

Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles. Safety glasses

Skin and body protection:

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Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles. Impermeable boots and protective equipment. acid-resistant protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



| SECTION 9: Physical and chemical pr | operties |
|---|---------------------|
| 9.1. Information on basic physical and ch | emical properties |
| Physical state | : Liquid |
| Appearance | : Liquid. |
| Color | : clear |
| Odor | : odorless |
| Odor threshold | : No data available |
| pH | : 1 |
| Melting point | : Not applicable |
| Freezing point | : 32 °F |
| Boiling point | : No data available |
| Flash point | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : Not applicable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : No data available |
| Specific gravity / density | : 1.05 g/m³ |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| 9.2. Other information | |

No additional information available

| SEC1 | FION 10: Stability and reactivity Reactivity |
|----------|--|
| | oduct is non-reactive under normal conditions of use, storage and transport. |
| 10.2. | Chemical stability |
| <u>.</u> | under normal conditions. |

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

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10.5. Incompatible materials

metals.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

| SECTION 11: Toxicological information | n |
|--|---|
| 11.1. Information on toxicological effects | |
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |
| Ammonium Hydrogendifluoride (1341-49-7) | |
| LD50 oral rat | 130 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) |
| Skin corrosion/irritation | : Causes severe skin burns. pH: 1 |
| Serious eye damage/irritation | : Causes serious eye damage. pH: 1 |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity – single exposure | : Not classified |
| Specific target organ toxicity – repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| Viscosity, kinematic | : No data available |
| Symptoms/effects after skin contact | : Burns. |
| Symptoms/effects after eye contact | : Serious damage to eyes. |
| Symptoms/effects after ingestion | : Burns. |

| SECTION 12: Ecological informati | 011 | |
|---|--|--|
| 2.1. Toxicity | | |
| Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms. | | |
| Ammonium Hydrogendifluoride (1341-4 | 9-7) | |
| LC50 fish 1 | 421.4 mg/l (96 h, Pisces, Estimated value) | |
| 2.2. Persistence and degradability | | |
| Ammonium Hydrogendifluoride (1341-4 | 9-7) | |
| Persistence and degradability | Biodegradability: not applicable. | |
| Chemical oxygen demand (COD) | Not applicable (inorganic) | |
| ThOD | Not applicable (inorganic) | |
| Phosphoric Acid (7664-38-2) | | |
| Persistence and degradability | Biodegradability: not applicable. | |
| 12.3. Bioaccumulative potential | | |
| Ammonium Hydrogendifluoride (1341-49-7) | | |
| Bioaccumulative potential | Not bioaccumulative. | |
| Phosphoric Acid (7664-38-2) | | |
| Bioaccumulative potential | No test data of component(s) available. | |

CECTION 40. Easteria

-1.1.

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| Am | nmonium Hydrogendifluoride (1341-49-7) | |
|-------|--|---|
| Eco | ology - soil | No (test)data on mobility of the substance available. |
| Ph | osphoric Acid (7664-38-2) | |
| Eco | ology - soil | Highly mobile in soil. |
| | | |
| 12.5. | Other adverse effects | |

No additional information available

| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
|--|---|
| ECTION 14: Transport information | |
| Department of Transportation (DOT) In accordance with DOT | |
| | |
| Transport document description | : UN1760 Corrosive liquids, n.o.s. (Phosphoric Acid, Ammonium Hydrogendifluoride), 8, III |
| UN-No.(DOT) | : UN1760 |
| Proper Shipping Name (DOT) | : Corrosive liquids, n.o.s. |
| | Phosphoric Acid, Ammonium Hydrogendifluoride |
| Class (DOT) | : 8 - Class 8 - Corrosive material 49 CFR 173.136 |
| Packing group (DOT) | : III - Minor Danger |
| Hazard labels (DOT) | : 8 - Corrosive |
| | CORROSIVE |
| DOT Packaging Non Bulk (49 CFR 173.xxx) | : 203 |
| DOT Packaging Bulk (49 CFR 173.xxx) | : 241 |
| DOT Symbols | : G - Identifies PSN requiring a technical name |
| DOT Special Provisions (49 CFR 172.102) | IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 31HD2 and 31HH2). Additional Requirement: Only liquid with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 5 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Tab 2 for UN2672). T7 - 4 178.274(d)(2) Normal |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : 154 |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 5L |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | : 60 L |
| DOT Vessel Stowage Location | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel. |
| DOT Vessel Stowage Other | : 40 - Stow "clear of living quarters" |
| Emergency Response Guide (ERG) Number | : 154 |
| Inergency Response Guide (LRG) Number | |

Not applicable

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Transport by sea

| Transport document description (IMDG) | : UN 1760 CORROSIVE LIQUID, N.O.S., 8, III |
|---------------------------------------|--|
| UN-No. (IMDG) | : 1760 |
| Proper Shipping Name (IMDG) | : CORROSIVE LIQUID, N.O.S. |
| Class (IMDG) | : 8 - Corrosive substances |
| Packing group (IMDG) | : III - substances presenting low danger |
| Air transport | |
| All transport | |
| Transport document description (IATA) | : UN 1760 Corrosive liquid, n.o.s., 8, III |
| | : UN 1760 Corrosive liquid, n.o.s., 8, III : 1760 |
| Transport document description (IATA) | |

Packing group (IATA) : III - Minor Danger

| SECTION 15: Regulatory information | | | |
|--|---------|--|--|
| 15.1. US Federal regulations | | | |
| Ammonium Hydrogendifluoride (1341-49-7) | | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313 | | | |
| CERCLA RQ | 100 lb | | |
| Phosphoric Acid (7664-38-2) | | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313 | | | |
| CERCLA RQ | 5000 lb | | |
| 15.2. International regulations | | | |
| CANADA | | | |

| Ammonium Hydrogendifluoride (1341-49-7) | |
|---|--|
| Listed on the Canadian DSL (Domestic Substances List) | |
| Phosphoric Acid (7664-38-2) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| EU-Regulations | |
| No additional information available | |
| National regulations | |
| le editional information evolution | |

No additional information available

15.3. US State regulations

| Component | State or local regulations |
|--|--|
| Ammonium Hydrogendifluoride(1341-49-7) | U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List |
| Phosphoric Acid(7664-38-2) | U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List |

SECTION 16: Other information

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| Hazard Rating | |
|---------------|---|
| Health | : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given |
| Flammability | : 0 Minimal Hazard - Materials that will not burn |
| Physical | : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives. |

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.