

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.
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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.	

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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.