

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 3/9/2017 Revision date: 1/8/2024 Supersedes: 3/21/2017 Version: 1.7

SECTION 1: Identification	
1.1. Identification	
Product form Trade name Product code	: Mixture : Ultra Rust Out : 2591
1.2. Recommended use and restrictions o	n use
Recommended use	: Laundry, Neutralize
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 mix	kture
GHS US classification	
Acute toxicity (oral) Category 4 Serious eye damage/eye irritation Category 1	Harmful if swallowed Causes serious eye damage
2.2. GHS Label elements, including preca	utionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US) Hazard statements (GHS US)	: Danger : Harmful if swallowed
	Causes serious eye damage

No additional information available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

Name	Product identifier	%	GHS US classification
Hydrofluorosilic Acid	CAS-No.: 16961-83-4		Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318

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

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact	 Call a poison center/doctor/physician if you feel unwell. Remove person to fresh air and keep comfortable for breathing. Wash skin with plenty of water. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effects (acute and delayed)	
Symptoms/effects after eye contact	: Serious damage to eyes.
4.3. Immediate medical attention and special treatment, if necessary	

Treat symptomatically.

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Specific hazards arising from the chemical		
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Special protective equipment and precautions for fire-fighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipme	ent and emergency procedures	
6.1.1. For non-emergency personnel Emergency procedures :	Ventilate spillage area. Avoid contact with skin and eyes.	
6.1.2. For emergency responders Protective 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 release to the environment.		
6.3. Methods and material for containment and cleaning up		
Methods for cleaning up : Other information :	Take up liquid spill into absorbent material. 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 storag	e
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Always wash hands after handling the
Hygiene measures	product.
7.2. Conditions for safe storage, including any incompatibilities	

Storage conditions

: Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

Ultra Rust Out		
No additional information available		
Hydrofluorosilic Acid (16961-83-4)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	≈ 2.5 mg/m³	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL (TWA) [1]	≈ 2.5 mg/m³	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL (TWA)	≈ 2.5 mg/m³	
8.2. Appropriate engineering controls		
	Ensure good ventilation of the work station. Avoid release to the environment.	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

8.3. Individual protection measures/Personal protective equipment

Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
In case of insufficient ventilation, wear suitable respiratory equipment	

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Color	: Purple
Odor	: characteristic
Odor threshold	: No data available
pH	· ≥2
Melting point	: Not applicable
Freezing point	: No data available
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
Density	: 1.07 g/m ³
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
	: No data available
Explosion limits	: No data available
Explosive properties	
Oxidizing properties	: No data available

9.2. Other information

No additional information available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable 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).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects	3
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	Harmful if swallowed.Not classifiedNot classified
Ultra Rust Out	
ATE US (oral)	1111.111 mg/kg body weight
Hydrofluorosilic Acid (16961-83-4)	
LD50 oral rat	≈ 1365 mg/kg
ATE US (oral)	500 mg/kg body weight
Skin corrosion/irritation	: Not classified pH: ≥ 2
Hydrofluorosilic Acid (16961-83-4)	
рН	\leq 1.5 (1 – 2)
Serious eye damage/irritation	: Causes serious eye damage. pH: ≥ 2
Hydrofluorosilic Acid (16961-83-4)	
рН	≤ 1.5 (1 – 2)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Symptoms/effects after eye contact

: Serious damage to eyes.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general :	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Hydrofluorosilic Acid (16961-83-4)	
LC50 - Fish [1]	> 10 mg/l (96 h, Brachydanio rerio, Static system)
12.2. Persistence and degradability	
Hydrofluorosilic Acid (16961-83-4)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
12.3. Bioaccumulative potential	
Hydrofluorosilic Acid (16961-83-4)	
Bioaccumulative potential	Not bioaccumulative.
12.4. Mobility in soil	
Hydrofluorosilic Acid (16961-83-4)	
Ecology - soil	No (test)data on mobility of the component(s) available.
12.5. Other adverse effects	
No additional information available	

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information	ion
14.1. UN number	
DOT NA No UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA)	: UN1760 : Not applicable : 1760 : 1760
14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG)	 Corrosive liquids, n.o.s. Not applicable CORROSIVE LIQUID, N.O.S.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Proper Shipping Name (IATA)	: Corrosive liquid, n.o.s.
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT) Hazard labels (DOT)	: 8 : 8 CORROSIVE
TDG Transport hazard class(es) (TDG)	: Not applicable
IMDG Transport hazard class(es) (IMDG) Hazard labels (IMDG)	$\begin{array}{c} \cdot & 8 \\ \cdot & 8 \\ \hline & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\$
IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	: II : Not applicable : II : II
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT UN-No.(DOT)	: UN1760

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT Special Provisions (49 CFR 172.102)	 B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized. B2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T11 - 6 178.274(d)(2) Normal
DOT Deckering Executions (40 CEP 172 yvv)	defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx)	: 154 : 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
TDG Emergency Response Guide (ERG) Number	: 154
IMDG	
Special provision (IMDG)	: 274
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG) Tank special provisions (IMDG)	: T11 : TP2. TP27
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Stowage category (IMDG)	
Stowage and handling (IMDG)	: SW2
Properties and observations (IMDG)	: Causes burns to skin, eyes and mucous membranes.
ΙΑΤΑ	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 851
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 855
CAO max net quantity (IATA)	: 30L
Special provision (IATA)	: A3 : 8L
ERG code (IATA)	. UL

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Hydrofluorosilic Acid	16961-83-4	Present	Active	

15.2. International regulations

CANADA

Hydrofluorosilic Acid (16961-83-4)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

Component	State or local regulations
Hydrofluorosilic Acid(16961-83-4)	U.S New Jersey - Right to Know Hazardous Substance List
	0.5 New Jersey - Right to Rhow Hazardous Substance List

SECTION 16: Other information according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations		
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.	

Safety Data Sheet (SDS), USA

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.