

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015) Issue date: 2015-08-14 Revision date: 2022-03-14 Supersedes: 2019-06-28 Version: 5.0

SECTION 1: Identification	
1.1. Product identifier	
Product form Product name	: Mixture : Derustit SS-3™ Stainless Steel Cleaner (Liquid and Paste)
1.2. Recommended use and restrictions	on use
Recommended use Restrictions on use	: Industrial use : None known
1.3. Supplier	
Bradford Derustit Corp P.O. Box 1194 Yorba Linda, CA, 92885 T (714) 695-0899 <u>sales@derustit.com</u> - <u>www.DERUSTIT.com</u>	
1.4. Emergency telephone number	
Emergency number	: Chemtrec 800-424-9300/703-527-3889 CCN 3103 Chemtrec Mexico 01-800-681-9531
Classification (GHS CA) Oxidizing liquids Category 3 Corrosive to metals Category 1 Acute toxicity (inhalation:dust,mist) Category 3 Skin corrosion/irritation Category 1B Serious eye damage/eye irritation Category 1 Specific target organ toxicity (repeated exposure) Health hazard not otherwise classified, category Full text of H statements : see section 16	exposure
2.2. GHS Label elements, including prec	utionary statements
GHS CA labeling Hazard pictograms (GHS CA)	
Signal word (GHS CA)	: Danger
Hazard statements (GHS CA)	: H272 - May intensify fire; oxidizer H290 - May be corrosive to metals H314 - Causes severe skin burns and eye damage H331 - Toxic if inhaled

H372 - Causes damage to organs through prolonged or repeated exposure

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Precautionary statements (GHS CA)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P220 - Keep away from clothing and other combustible materials.
	P234 - Keep only in original container.
	P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
	P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
	P264 - Wash hands, forearms and face thoroughly after handling.
	P270 - Do not eat, drink or smoke when using this product.
	P271 - Use only outdoors or in a well-ventilated area.
	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): Take off immediately all contaminated clothing. Rinse
	skin with water.
	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	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.
	P311 - Call a POISON CENTER or doctor.
	P314 - Get medical advice/attention if you feel unwell.
	P321 - Specific treatment (see supplemental first aid instruction on this label).
	P363 - Wash contaminated clothing before reuse.
	P370+P378 - In case of fire: Use media other than water to extinguish.
	P390 - Absorb spillage to prevent material-damage.
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
	P405 - Store locked up.
	P406 - Store in corrosive resistant container with a resistant inner liner.
	P501 - 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

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	wt%	Classification (GHS CA)
Sulfuric acid	Sulphuric acid / SULFURIC ACID / Hydrogen sulfate / Sulphuric acid % / Sulphuric acid %	CAS-No.: 7664-93-9	10 – 30	HHNOC 1 Met. Corr. 1, H290 Acute Tox. 2 (Inhalation), H330 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1A, H314 Eye Dam. 1, H318

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Name	Chemical name / Synonyms	Product identifier	wt%	Classification (GHS CA)
Nitric acid	Nitric acid%	CAS-No.: 7697-37-2	5 – 10	Ox. Liq. 3, H272 Met. Corr. 1, H290 Acute Tox. 1 (Inhalation), H330 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1, H314 Eye Dam. 1, H318 HHNOC 1
Hydrofluoric acid	Hydrogen fluoride / Hydrogen fluoride, anhydrous / hydrofluoric acid / Fluoridic acid	CAS-No.: 7664-39-3	1 – 5	Acute Tox. 2 (Inhalation), H330 Skin Corr. 1, H314 Eye Dam. 1, H318 STOT RE 1, H372 HHNOC 1
Ammonium fluoride	Ammonia fluoride / AMMONIUM FLUORIDE / Ammonium fluoride ((NH4)F)	CAS-No.: 12125-01-8	1 – 5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 STOT RE 1, H372

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 after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a doctor. Call a physician immediately.		
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Immediately call a poison center or doctor/physician.		
First-aid 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. Get medical advice/attention.		
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately. Immediately call a poison center or doctor/physician.		
First-aid measures general	: Call a physician immediately.		
4.2. Most important symptoms and effects (acute and delayed)			
Symptoms/effects after skin contact	: Burns. May cause an allergic skin reaction. May cause moderate irritation. Repeated exposure may cause skin dryness or cracking.		
Symptoms/effects after eye contact	: Serious damage to eyes. May cause eye irritation.		
Symptoms/effects after ingestion	: Burns.		
4.3. Immediate medical attention and special treatment, if necessary			
Other medical advice or treatment	: Treat symptomatically.		

SECTION 5: Fire-fighting measures	
5.1. Suitable extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.

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5.2. Unsuitable extinguishing media	
Unsuitable extinguishing media	: Not determined.
5.3. Specific hazards arising from the hazar	rdous product
Fire hazard Hazardous decomposition products in case of fire	May intensify fire; oxidizer.Toxic fumes may be released.
5.4. Special protective equipment and prec	autions for fire-fighters
Firefighting instructions Protection during firefighting	 Evacuate area. Eliminate all ignition sources if safe to do so. Fight fire from safe distance and protected location. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equip	pment and emergency procedures		
General measures Personal Precautions, Protective Equipment and Emergency Procedures	 Do not handle until all safety precautions have been read and understood. Concerning personal protective equipment to use, see item 8. 		
6.2. Methods and materials for containmer	nt and cleaning up		
Methods for cleaning up Other information	 Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. Dispose of materials or solid residues at an authorized site. 		
6.3 Reference to other sections			

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Floors, walls and other surfaces in the hazard area must be cleaned regularly.
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	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 container tightly closed. Store in a closed container. Keep cool.
Incompatible materials Storage area	Combustible materials. Metals.Store away from heat.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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8.2. Appropriate engineering controls	
Appropriate engineering controls Environmental exposure controls	Ensure good ventilation of the work station.Avoid release to the environment.
8.3. Individual protection measures/P	ersonal protective equipment
Personal protective equipment: Avoid all unnecessary exposure.	
Hand protection:	
Protective gloves	
Eye protection:	
Chemical goggles or safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
Wear respiratory protection.	

Other information:

Do not eat, drink or smoke when using this product.

9.1. Information on basic physical and o	hemical properties
Physical state	: Liquid
Appearance	: Liquid.
Color	: Brown
Odor	: Acidic
Odor threshold	: No data available
рН	: 1.35 – 1.38
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 102 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: 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
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity	
Reactivity	: May intensify fire; oxidizer.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
Incompatible materials	: Strong acids. Strong bases. Combustible materials. metals.
Hazardous decomposition products	: Corrosive vapors. Halogenated compounds. Nitrogen oxides.
Hardening time:	: No additional information available

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (dermal) : Acute toxicity (inhalation) :	Not classified. Not classified. Toxic if inhaled.
ATE CA (dust,mist)	0.5 mg/l/4h
Sulfuric acid (7664-93-9)	
LD50 oral rat	2140 mg/kg
LC50 Inhalation - Rat	0.375 mg/l/4h
ATE CA (Gases (except aerosol dispensers and lighters))	100 ppmV/4h
ATE CA (vapors)	0.5 mg/l/4h
ATE CA (dust,mist)	0.05 mg/l/4h
Nitric acid (7697-37-2)	
LC50 Inhalation - Rat [ppm]	2500 ppm/1h
ATE CA (Gases (except aerosol dispensers and lighters))	10 ppmV/4h
ATE CA (vapors)	0.05 mg/l/4h
ATE CA (dust,mist)	0.005 mg/l/4h
Hydrofluoric acid (7664-39-3)	
LC50 Inhalation - Rat	0.79 mg/l (Exposure time: 1 h)
ATE CA (Gases (except aerosol dispensers and lighters))	100 ppmV/4h
ATE CA (vapors)	0.5 mg/l/4h
ATE CA (dust,mist)	0.05 mg/l/4h
Ammonium fluoride (12125-01-8)	
ATE CA (oral)	500 mg/kg body weight
Skin corrosion/irritation :	Causes severe skin burns. pH: 1.35 – 1.38

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Serious eye damage/irritation	: Causes serious eye damage. pH: 1.35 – 1.38
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	: Causes damage to organs through prolonged or repeated exposure.
Hydrofluoric acid (7664-39-3)	
STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure.	
Ammonium fluoride (12125-01-8)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified.
Symptoms/effects after skin contact	: Burns. May cause an allergic skin reaction. May cause moderate irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: Serious damage to eyes. May cause eye irritation.
Symptoms/effects after ingestion	: Burns.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term : (acute)	Before neutralisation, the product may represent a danger to aquatic organisms. Not classified.
Hazardous to the aquatic environment, long-term : (chronic)	Not classified.
Sulfuric acid (7664-93-9)	
LC50 - Fish [1]	> 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
BCF - Fish [1]	(no bioaccumulation)
Nitric acid (7697-37-2)	
artition coefficient n-octanol/water (Log Pow) -2.3 (at 25 °C)	
Hydrofluoric acid (7664-39-3)	
EC50 - Crustacea [1]	270 mg/l (Exposure time: 48 h - Species: Daphnia species)
BCF - Fish [1]	(no bioaccumulation)
Partition coefficient n-octanol/water (Log Pow)	-1.4
Ammonium fluoride (12125-01-8)	
LC50 - Fish [1]	364 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
12.2. Persistence and degradability	

No additional information available

12.3. Bioaccumulative potential	
Sulfuric acid (7664-93-9)	
BCF - Fish [1]	(no bioaccumulation)

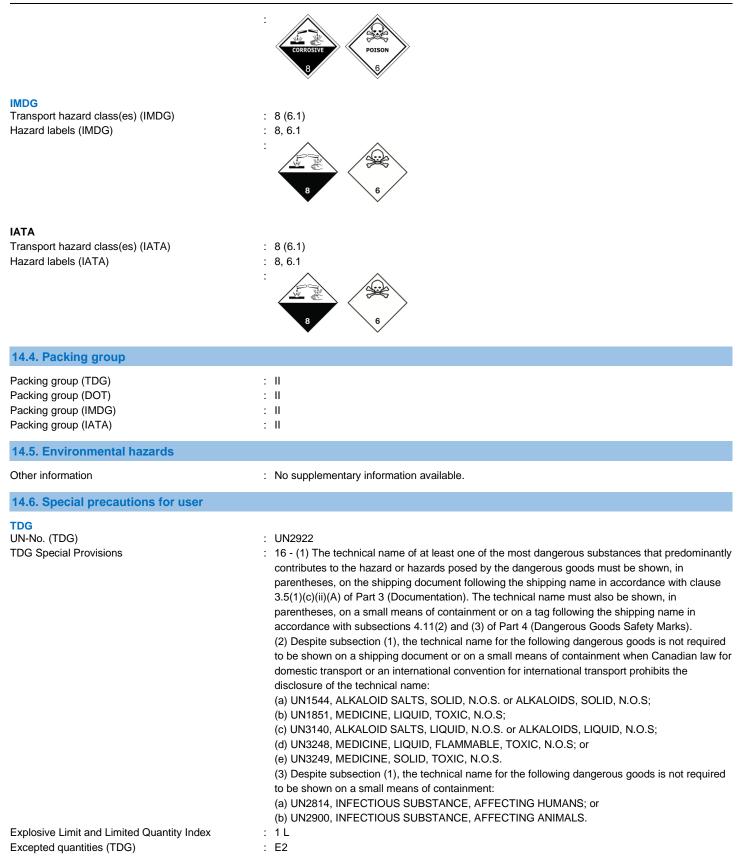
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Nitric acid (7697-37-2)		
Partition coefficient n-octanol/water (Log Pow)	-2.3 (at 25 °C)	
Hydrofluoric acid (7664-39-3)		
BCF - Fish [1]	(no bioaccumulation)	
Partition coefficient n-octanol/water (Log Pow)	-1.4	
12.4. Mobility in soil		
Nitric acid (7697-37-2)		
Partition coefficient n-octanol/water (Log Pow) -2.3 (at 25 °C)		
Hydrofluoric acid (7664-39-3)		
Partition coefficient n-octanol/water (Log Pow)	-1.4	
12.5. Other adverse effects		
Ozone	: Not classified.	
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		
In accordance with TDG / DOT / IMDG / IATA		
14.1. UN number		
UN-No. (TDG)	: UN2922	
DOT NA No UN-No. (IMDG)	: UN2922 : 2922	
UN-No. (IATA)	2922	
14.2. UN proper shipping name		
Proper Shipping Name (TDG)	CORROSIVE LIQUID, TOXIC, N.O.S.	
Proper Shipping Name (DOT) Proper Shipping Name (IMDG)	: Corrosive liquids, toxic, n.o.s. : CORROSIVE LIQUID, TOXIC, N.O.S.	
Proper Shipping Name (IATA)	Corrosive liquid, toxic, n.o.s.	
14.3. Transport hazard class(es)		
TDG Transport hazard class(es) (TDG)	: 8 (6.1)	
Hazard labels (TDG)	8, 6.1	
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	: 8 (6.1) : 8, 6.1	

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Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 1L
Emergency Response Guide (ERG) Number	: 154
DOT	
UN-No.(DOT)	: UN2922
DOT Special Provisions (49 CFR 172.102)	: B3 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks and
	DOT 57 portable tanks are not authorized.
	IB2 - 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. T7 - 4 178.274(d)(2) Normal
	TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical
	expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image)
	Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59
	F) and 50 C (122 F), respectively.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)	: 202 : 243
DOT Quantity Limitations Passenger aircraft/rail (49	
CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49	: 30 L
CFR 175.75)	
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"
IMDG	
Special provision (IMDG)	: 274
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	
EmS-No. (Fire) EmS-No. (Spillage)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE : S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Stowage category (IMDG)	: B
Properties and observations (IMDG)	: Causes burns to skin, eyes and mucous membranes. Toxic if swallowed, by skin contact or by
	inhalation.
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) ERG code (IATA)	: A3, A803 : 8P
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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION '	15 Requ	latory inf	ormation
	10.1.090		

15.1. National regulations

Sulfuric acid (7664-93-9)

Listed on the Canadian DSL (Domestic Substances List)

Nitric acid (7697-37-2)

Listed on the Canadian DSL (Domestic Substances List)

Hydrofluoric acid (7664-39-3)

Listed on the Canadian DSL (Domestic Substances List)

Ammonium fluoride (12125-01-8)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

Sulfuric acid (7664-93-9)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on the Japanese ENCS (Existing New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law)

- Listed on KECL/KECI (Korean Existing Chemicals Inventory)
- Listed on NZIOC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Japanese Poisonous and Deleterious Substances Control Law

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Nitric acid (7697-37-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

- Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
- Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Japanese Poisonous and Deleterious Substances Control Law

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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Ammonium fluoride (12125-01-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Japanese ENCS (Existing New Chemical Substances) inventory Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Japanese Poisonous and Deleterious Substances Control Law Japanese Pollutant Release and Transfer Register Law (PRTR Law) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on INSQ (Mexican National Inventory of Chemical Substances)

SECTION 16: Other information

Issue date	:	08-14-2015
Revision date	:	03-14-2022
Supersedes	:	06-28-2019

Full text of H-phrases:	
H272	May intensify fire; oxidizer
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled
H331	Toxic if inhaled
H372	Causes damage to organs through prolonged or repeated exposure

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