

Material Name: Hydrogen Fluoride

* * *Section 1 - IDENTIFICATION* * *

GHS product identifier

Chemical name

Other means of identification

Product use

anhydrous hydrofluoric acid; hf-a; hydrofluoric acid

Synthetic/Analytical chemistry.

Synonym anhydrous hydrofluoric acid; hf-a; hydrofluoric acid

Supplier's details Electronic Fluorocarbons

> 3266 Bergey Road Hatfield PA 19440

Hydrogen Fluoride

Hydrofluoric acid

Emergency Telephone # Outside the US (call collect)

1-800-535-5053 1-352-323-3500

* * *Section 2 - HAZARDS IDENTIFICATION* * *

OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the substance or mixture GASES UNDER PRESSURE - Liquefied gas ACUTE TOXICITY (inhalation) - Category 3 SKIN CORROSION/IRRITATION - Category 1

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

GHS label elements

Hazard pictograms









Signal word

Hazard statements

Contains gas under pressure; may explode if heated.

May cause frostbite. Toxic if inhaled.

Causes severe skin burns and eye damage.

Causes serious eve damage. Corrosive to respiratory tract.

Precautionary statements

General

Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction. Always keep container in upright position.

Prevention

Wear protective gloves. Wear eye or face protection. Wear protective clothing. Use only outdoors or in a well-ventilated area. Avoid breathing gas. Wash hands thoroughly

after handling.

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Response IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. 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 physician.

Storage Store locked up. Protect from sunlight. Protect from sunlight when ambient

temperature exceeds 52°C/125°F. Store in a well-ventilated place.

Disposal Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Hazards not otherwise

classified

In addition to any other important health or physical hazards, this product may displace

oxygen and cause rapid suffocation.

* * *Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS* * *

Substance/mixture Substance

Chemical name Hydrofluoric acid

Other means of identification anhydrous hydrofluoric acid; hf-a; hydrofluoric acid

CAS number/other identifiers

CAS number 7664-39-3 **Product code** 001077

Ingredient name	%	CAS number
hydrogen fluoride	100	7664-39-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

* * *Section 4 - FIRST AID MEASURES* * *

Description of necessary first aid measures

Eye contact Get medical attention immediately. Call a poison center or physician. Immediately flush

eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns

must be treated promptly by a physician.

InhalationGet medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that

fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If

unconscious, place in recovery position and get medical attention immediately. Maintain

an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes.

Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a

physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion As this product is a gas, refer to the inhalation section.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Skin contact

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Eye contact Causes serious eye damage.

Toxic if inhaled. May cause respiratory irritation. Inhalation

Skin contact Causes severe burns.

Frostbite Try to warm up the frozen tissues and seek medical attention.

Ingestion As this product is a gas, refer to the inhalation section.

Over-exposure signs/symptoms

Eve contact Adverse symptoms may include the following:, pain, watering, redness

Inhalation Adverse symptoms may include the following:, respiratory tract irritation, coughing Skin contact Adverse symptoms may include the following:, pain or irritation, redness, blistering

may occur

Ingestion Adverse symptoms may include the following:, stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically. Contact poison treatment specialist immediately if large Notes to physician

quantities have been ingested or inhaled.

Specific treatments No specific treatment.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. If it is

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with

water before removing it, or wear gloves.

See toxicological information (Section 11)

* * *Section 5 - FIRE FIGHTING MEASURES* * *

Use an extinguishing agent suitable for the surrounding fire.

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

None known.

Specific hazards arising

from the chemical

Hazardous thermal

decomposition products

Contains gas under pressure. In a fire or if heated, a pressure increase will occur and

the container may burst or explode.

Decomposition products may include the following materials: halogenated compounds

Special protective actions

for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not breathe gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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Environmental precautions

Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

Immediately contact emergency personnel. Stop leak if without risk.

Large spill

Immediately contact emergency personnel. Stop leak if without risk. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

* * *Section 7 - HANDLING AND STORAGE* * *

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Do not get in eyes or on skin or clothing. Do not breathe gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. Keep container tightly closed and sealed until ready for use. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

* * *Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION* * *

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits		
hydrogen fluoride	ACGIH TLV (United States, 3/2015).		
, ,	Absorbed through skin. Notes: as F		
	C: 2 ppm, (as F)		
	TWA: 0.5 ppm, (as F) 8 hours.		
	NIOSH REL (United States, 10/2013). Notes:		
	as F		
	CEIL: 5 mg/m³, (as F) 15 minutes.		
	CEIL: 6 ppm, (as F) 15 minutes.		
	TWA: 2.5 mg/m³, (as F) 10 hours.		
	TWA: 3 ppm, (as F) 10 hours.		
	OSHA PEL (United States, 2/2013). Notes:		
	as F		
	TWA: 2.5 mg/m³, (as F) 8 hours.		
	OSHA PEL 1989 (United States, 3/1989).		
	Notes: as F		
	STEL: 6 ppm, (as F) 15 minutes.		
	TWA: 3 ppm, (as F) 8 hours.		
	OSHA PEL Z2 (United States, 2/2013).		
	TWA: 3 ppm 8 hours.		

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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.

Environmental exposure

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before

handling this product.

Other skin protection

Respiratory protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe

working limits of the selected respirator.

* * '*Section - - D\ mg]WU 'UbX'7\ Ya]WU 'DfcdYf]hjYg* * *

Appearance

Physical state Gas. [Fuming liquid.]

ColorColorless.Molecular weight20.01 g/mole

Molecular formula F-H

Boiling/condensation point 20°C (68°F)

Melting/freezing point -83°C (-117.4°F)

Critical temperature 188°C (370.4°F)

Odor Pungent.

Odor threshold Not available. pH Not available.

Flash point [Product does not sustain combustion.]

Burning time Not applicable.

Burning rate Not applicable.

Evaporation rate Not available.

Material Name: Hydrogen Fluoride

Flammability (solid, gas) Not available.

Lower and upper explosive Not available.

(flammable) limits

Vapor pressure0.5 (psig)Vapor density0.7 (Air = 1)Specific Volume (ft 3 /lb)19.3424Gas Density (lb/ft 3)0.0517

Relative density

Solubility

Not applicable.

Not available.

Not available.

Partition coefficient: n
Not available.

octanol/water

Auto-ignition temperature Not available.

Decomposition temperature Not available.

SADT Not available.

Viscosity Not applicable.

* * *Section 10 - STABILITY AND REACTIVITY* * *

ReactivityNo specific test data related to reactivity available for this product or its ingredients.

Chemical stability The product is stable.

Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid No specific data.

Incompatible materials No specific data.

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Hazardous polymerization Under normal conditions of storage and use, hazardous polymerization will not occur.

* * *Section 11 - TOXICOLOGICAL INFORMATION* * *

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
hydrogen fluoride	LC50 Inhalation Gas.	Rat	1276 ppm	1 hours

IDLH : 30 ppm

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
, ,	Eyes - Severe irritant Skin - Severe irritant	Human Rat		50 milligrams 3 minutes 50 Percent	-

Sensitization

Not available.

Mutagenicity

Material Name: Hydrogen Fluoride

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
hydrogen fluoride	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
hydrogen fluoride	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely

Not available.

routes of exposure

Potential acute health effects

Eye contact Causes serious eye damage.

Inhalation Toxic if inhaled. May cause respiratory irritation.

Skin contact Causes severe burns.

Ingestion As this product is a gas, refer to the inhalation section.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact Adverse symptoms may include the following:, pain, watering, redness

Inhalation Adverse symptoms may include the following:, respiratory tract irritation, coughing **Skin contact** Adverse symptoms may include the following:, pain or irritation, redness, blistering

may occur

Ingestion Adverse symptoms may include the following:, stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate Not available.

effects

Potential delayed effects Not available.

Long term exposure

Potential immediate Not available.

effects

Potential delayed effects Not available.

Potential chronic health effects

Not available.

General No known significant effects or critical hazards.

Material Name: Hydrogen Fluoride

CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

* * *Section 12 - ECOLOGICAL INFORMATION* * *

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (Koc)

Not available.

Other adverse effects No known significant effects or critical hazards.

* * *Section 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS#	Status	Reference number
Hydrogen fluoride (C,T); Hydrofluoric acid (C,T)	7664-39-3	Listed	U134

* * *Section 14 - Transport Information* * *

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1052	UN1052	UN1052	UN1052	UN1052
UN proper shipping name	HYDROGEN FLUORIDE, ANHYDROUS	HYDROGEN FLUORIDE, ANHYDROUS	HYDROGEN FLUORIDE, ANHYDROUS	HYDROGEN FLUORIDE, ANHYDROUS	HYDROGEN FLUORIDE, ANHYDROUS
Transport hazard class(es)	8 (6.1)	8 (6.1)	8 (6.1)	8 (6.1)	8 (6.1)
Packing group	I	I	I	I	I
Environment	No.	No.	No.	No.	No.
Additional information	Reportable quantity 100 lbs / 45.4 kg Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. Limited quantity Yes. Packaging instruction Passenger aircraft Quantity limitation: Forbidden. Cargo aircraft Quantity limitation: Forbidden. Special provisions 3, B7, B46, B71, B77, T10, TP2, T6	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8), 2.26-2.36 (Class 6). Explosive Limit and Limited Quantity Index 0 ERAP Index 1000 Passenger Carrying Ship Index Forbidden Passenger Carrying Road or Rail Index Forbidden	-	-	Passenger and Cargo AircraftQuantity limitation: 0 Forbidden Cargo Aircraft Only Quantity limitation: 0 Forbidden

[&]quot;Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

Special precautions for user Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

Not available.

* * *Section 15 - REGULATORY INFORMATION* * *

U.S. Federal regulations

TSCA 8(a) CDR Exempt/Partial exemption: Not determined Commerce

control list precursor: Hydrofluoric acid

United States inventory (TSCA 8b): This material is listed or exempted.

Clean Water Act (CWA) 311: Hydrofluoric acid

Clean Air Act (CAA) 112 regulated toxic substances: Hydrofluoric

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs)

acid: Listed

Material Name: Hydrogen Fluoride

Clean Air Act Section

Not listed

602 Class I Substances

Clean Air Act Section 602 Class II Substances Not listed

DEA List I Chemicals

Not listed

(Precursor Chemicals)

NOT listed

DEA List II Chemicals
(Essential Chemicals)

Not listed

(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
hydrogen fluoride	100	Yes.	100	-	100	-

SARA 304 RQ 100 lbs / 45.4 kg

SARA 311/312

Classification Sudden release of pressure Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
hydrogen fluoride	100	No.	Yes.	No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Hydrofluoric acid	7664-39-3	100
Supplier notification	Hydrofluoric acid	7664-39-3	100

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

MassachusettsThis material is listed.New York NewThis material is listed.JerseyThis material is listed.PennsylvaniaThis material is listed.

International regulations

International lists

National inventory

Australia This material is listed or exempted. Canada This material is listed or exempted. China This material is listed or exempted. **Europe** This material is listed or exempted. Japan This material is listed or exempted. Malaysia This material is listed or exempted. **New Zealand** This material is listed or exempted. **Philippines** This material is listed or exempted. Republic of Korea This material is listed or exempted.

Material Name: Hydrogen Fluoride

Taiwan This material is listed or exempted.

Canada

WHMIS (Canada) Class D-1A: Material causing immediate and serious toxic effects (Very toxic).

Class D-2A: Material causing other toxic effects (Very toxic).

Class E: Corrosive material

CEPA Toxic substances: This material is listed.
Canadian ARET: This material is not listed.
Canadian NPRI: This material is listed.

Alberta Designated Substances: This material is not listed. Ontario Designated Substances: This material is not listed. Quebec Designated Substances: This material is not listed.

* * *Section 16 - OTHER INFORMATION* * *

Canada Label requirements Class D-1A: Material causing immediate and serious toxic effects (Very

toxic).

Class D-2A: Material causing other toxic effects (Very toxic).

Class E: Corrosive material

NFPA Ratings

Health: 4 Fire: 0 Reactivity: 1

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU -Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR -Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F -Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID -European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US -**United States**

Other Information

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