Hydrogen fluoride (100 %)

000000000034

Version 4.13 Revision Date 02/09/2026 Print Date 03/01/2026

SECTION 1. IDENTIFICATION

Product name	:	Hydrogen fluoride (100 %)
Number	:	000000000034
Product Use Description	:	Chemical derivatives, Alkylation catalyst
Note	:	Synonyms: HF, Anhydrous HF, AHF, Hydrogen Fluoride, HF Acid For additional information, please visit http://www.HFacid.com (available 24 hours/day, 7days/week).
Manufacturer or supplier's details	:	Solstice Advanced Materials US, Inc. 115 Tabor Road Morris Plains, NJ 07950-2546
For more information call	:	1-800-622-5002 +1-973-455-6300(Monday-Friday, 9:00am-5:00pm)
In case of emergency call	:	**Medical: 1 866-479-8788 or +1 303-739-1378**
	:	**Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887**
	:	
	:	(24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form	:	Colourless fuming liquid
Color	:	clear
Odor	:	intolerable pungent

Classification of the substance or mixture

Classification of the substance or mixture	:	Acute toxicity, Category 2, Oral Acute toxicity, Category 2, Inhalation Acute toxicity, Category 1, Dermal Skin corrosion, Category 1A

Serious eye damage, Category 1

GHS Label elements, including precautionary statements

Symbol(s) :

Signal word : Danger

Hazard statements	: H300 + H310 + H330	Fatal if swallowed, in contact with skin or if inhaled.
	H314	Causes severe skin burns and eye damage.
Precautionary statements	: **Prevention:**	
	P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
	P262	Do not get in eyes, on skin, or on clothing.
	P264	Wash skin 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.
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
	P284	Wear respiratory protection.
	Response:	
	P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
	P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position 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/ doctor.
	P361	Remove/ Take off immediately all contaminated clothing.
	P363	Wash contaminated clothing before reuse.
	Storage:	
	P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
	P405	Store locked up.
	Disposal:	
	P501	Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified : Causes severe burns which may not be immediately painful or visible.
May cause hypocalcemia (depletion of calcium in the body) which may be fatal.
Specialized medical treatment is required for all exposures.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Hydrofluoric acid, anhydrous, HF anhydrous

Chemical name	CAS-No.	Concentration
Hydrogen fluoride	7664-39-3	<=100.00 %

SECTION 4. FIRST AID MEASURES

Inhalation : Remove to fresh air. Keep patient warm and at rest. Get competent medical attention immediately. If breathing has

stopped, start artificial respiration at once. An authorized person should administer oxygen to a victim who is having difficulty breathing, until the victim is able to breathe easily by himself. Calcium gluconate, 2.5% in normal saline may be given by nebulizer with oxygen. Do not give stimulants unless instructed to do so by a physician. Victim should be examined by a physician and held under observation for at least 24 hours.

Skin contact : Remove the victim from the contaminated area and immediately wash the burned area with plenty of water for a minimum of 15 minutes. Limit washing to 5 minutes if treatment specific for HF exposure is available. Remove all contaminated clothing while washing continuously. After thorough washing for at least 5 minutes, the burned area should be immersed in a solution of 0.13% iced aqueous Benzalkonium Chloride until pain is relieved. As an alternate first aid treatment, 2.5% calcium gluconate gel may be continuously massaged into the burn area until the pain is relieved. For burns not responsive to topical treatment (as measured by pain being present for longer than 30 minutes) a physician may inject 2.5% - 5% aqueous calcium gluconate beneath, around and in the burned area. Use of local anesthetics is not recommended, as reduction in pain is an indicator of effectiveness of treatment.

Eye contact : Immediately flush the eyes for at least 15 minutes with large amounts of gently flowing water. Hold the eyelids open and away from the eye during irrigation to allow thorough flushing of the eyes. Do not use the benzalkonium chloride (Zephiran) solutions described for skin treatment. If the person is wearing contact lenses, the lenses should be removed, if possible. However, flushing with water should not be interrupted, and the lenses should be removed by a person who is qualified to do so. If sterile 1% calcium gluconate solution is available, water washing may be limited to 5 minutes, after which the 1% calcium gluconate solution should be used to irrigate the eye using a syringe or a continuous irrigation device. Take the victim to a doctor, preferably an eye specialist, as soon as possible. Ice water compresses may be applied to the eyes while transporting the victim to the doctor. If a physician is not immediately available, apply one or two drops of 0.5% tetracaine hydrochloride, 0.5% proparacaine, or other aqueous, topical ophthalmic anesthetic and continue irrigation. Use no other medications unless instructed to do so by a physician. Rubbing of the eyes is to be avoided.

Ingestion	:	Do not induce vomiting. Do not give emetics or baking soda. Never give anything by mouth to an unconscious person. Get immediate medical attention. Ingestion of HF is a life-threatening emergency.

Notes to physician

Indication of immediate medical attention and special treatment needed, if necessary	:	For large skin area burns (totaling greater than 25 square inches), for ingestion and for significant inhalation exposure, severe systemic effects may occur. Monitor and correct for hypocalcemia, cardiac arrhythmias, hypomagnesemia and hyperkalemia. In some cases hemodialysis may be indicated. For certain burns, especially of the digits, use of intra-arterial calcium gluconate may be indicated. For inhalation exposures, treat as chemical pneumonia. Monitor for hypocalcemia. 2.5% calcium gluconate in normal saline by nebulizer or by intermittent positive pressure breathing with 100% oxygen may decrease pulmonary damage. Bronchodilators may also be administered. A booklet titled “Recommended Medical Treatment for Hydrofluoric Acid Exposure” is available from the Solstice HF website: http://www.HFacid.com.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Foam Carbon dioxide (CO2) Dry chemical On dilution or dissolving in water, considerable heating always occurs. Contact with a relatively small quantity of water creates violent reaction generating much heat and spattering of hot acid If use of water is necessary use copious amounts
Specific hazards during firefighting	:	Fire or intense heat may cause violent rupture of packages. Use a water spray to cool fully closed containers. Reacts violently with water. Do not direct water spray at the point of leakage. Contact with metals liberates hydrogen gas. Hydrogen gas is flammable and may form an explosive atmosphere.

Diking with silicon materials is to be avoided. May form Silicon tetrafluoride gas.

Special protective equipment for firefighters	:	Personal protection through wearing a tightly closed chemical protection suit and a self-contained breathing apparatus. No unprotected exposed skin areas.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Immediately evacuate personnel to safe areas. Immediately contact emergency personnel. Ensure all affected individuals are in a safe environment. Wear personal protective equipment. Unprotected persons must be kept away. Keep people away from and upwind of spill/leak. Personal protection through wearing a tightly closed chemical protection suit and a self-contained breathing apparatus. Ensure all equipment (including Personal Protective Equipment (PPE)) is compatible with Hydrofluoric acid (HF).
Environmental precautions	:	Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided. Do not flush into surface water or sanitary sewer system. Do not allow run-off from fire fighting to enter drains or water courses. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Prevent spreading over a wide area (e.g. by containment or oil barriers). Diking with silicon materials is to be avoided. May form Silicon tetrafluoride gas. Suppress (knock down) gases/vapours/mists with a water spray (fog). Do not direct water spray at the point of leakage. Use water spray cautiously and in large quantities. With acids neutralization takes place under development of heat. Do not pick up with the help of saw-dust or other combustible substances. Neutralize acidity with an appropriate alkaline material. Neutralize with caustics, lime, soda ash, baking soda or other

appropriate alkaline material. Pay attention to the incompatibility statements in Section 10 when effecting neutralization.

SECTION 7. HANDLING AND STORAGE

Handling

Precautions for safe handling	:	Wear personal protective equipment. Exhaust ventilation at the object is necessary. Ensure all equipment (including Personal Protective Equipment (PPE)) is compatible with Hydrofluoric acid (HF). Perform filling operations only at stations with exhaust ventilation facilities. Specialized medical treatment is required for all exposures. Plan first aid action before beginning work with this product. When diluting, add acids to water, never the other way around. Do not swallow. Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing.
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.

Storage

Conditions for safe storage, including any incompatibilities	:	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up or in an area accessible only to qualified or authorised persons. Prevent unauthorized access. Protect from physical damage. Store away from incompatible substances.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures	:	Ensure that eyewash stations and safety showers are close to the workstation location. Plan first aid action before beginning work with this product. Ensure all equipment (including Personal Protective Equipment (PPE)) is compatible with Hydrofluoric acid (HF).

Engineering measures	:	Use with local exhaust ventilation. Apply technical measures to comply with the occupational exposure limits.
Eye protection	:	Wear as appropriate: Goggles or face shield, giving complete protection to eyes
Hand protection	:	Protective gloves Gloves must be inspected prior to use. Replace when worn.
Skin and body protection	:	Wear suitable protective equipment. complete suit protecting against chemicals
Respiratory protection	:	In case of insufficient ventilation wear suitable respiratory equipment. Use NIOSH approved respiratory protection. Have available emergency self-contained breathing apparatus or full-face airline respirator when using this chemical.
Hygiene measures	:	When using, do not eat, drink or smoke. Provide adequate ventilation. Keep working clothes separately. Contaminated work clothing should not be allowed out of the workplace. Do not swallow. Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing. This material has an established AIHA ERPG exposure limit. The current list of ERPG exposure limits can be found at http://www.aiha.org/insideaiha/GuidelineDevelopment/ERPG/Documents/2011erpgweelhandbook_table-only.pdf.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Hydrogen fluoride	7664-39-3	Conc : Concentration:	(30 ppm) NIOSH IDLH (Immediately Dangerous to Life or Health Concentrations)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended

Hydrogen fluoride	7664-39-3	IDLH : Immediately dangerous to life or health (IDLH) concentration:	(30 ppm) IDLH values based on the 1994 Revised Criteria	10 2017	NIOSH IDLH:US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Hydrogen fluoride	7664-39-3	:	Listed	10 2017	NIOSH IDLH:US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Hydrogen fluoride	7664-39-3	:	Listed	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Further information	:	Expressed as : as F			

Hydrogen fluoride	7664-39-3	:	Listed	02 2006	OSHA/Z2:US. OSHA Table Z-2 (29 CFR 1910.1000), as amended

Hydrogen fluoride	7664-39-3	:	Listed	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Further information	:	Expressed as : as F			

Hydrogen fluoride	7664-39-3	STEL : Short term exposure limit	0.83 mg/m3 (1 ppm)	04 2024	US CA OEL:US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
Further information	:	Expressed as : as F			

Hydrogen fluoride	7664-39-3	TWA PEL : Time Weighted Average (TWA) Permissible Exposure Limit (PEL):	0.33 mg/m3 (0.4 ppm)	02 2012	US CA OEL:US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
Further information	:	Expressed as : as F			

Hydrogen fluoride	7664-39-3	:	Listed	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Further information	:	Expressed as : as F			

Hydrogen fluoride	7664-39-3	:	Listed	09 2006	US CA OEL:US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
Further information	:	Expressed as : as F			

Hydrogen fluoride	7664-39-3	:	Listed	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended

Hydrogen fluoride	7664-39-3	TWA : Time weighted average	(3 ppm)	06 2008	TN OEL:US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
Further information	:	Expressed as : as F			

Hydrogen fluoride	7664-39-3	STEL : Short term exposure limit	(6 ppm)	01 2019	TN OEL:US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
Further information	:	Expressed as : as F			

Hydrogen fluoride	7664-39-3	:	Listed	06 2008	TN OEL:US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
Further information	:	Expressed as : as F			

Hydrogen fluoride	7664-39-3	SKIN_DES : Skin designation:	Can be absorbed through the skin.	02 2012	US CA OEL:US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended

Further information	:	Expressed as : as F

Hydrogen fluoride	7664-39-3	AN ESL : Annual ESL:	0.73 ppb Vegetation	11 2016	TX ESL:US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended

Hydrogen fluoride	7664-39-3	ST ESL : Short-Term ESL:	3 µg/m3 Vegetation	01 2021	TX ESL:US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended

Hydrogen fluoride	7664-39-3	AN ESL : Annual ESL:	11 ppb Health	11 2016	TX ESL:US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended

Hydrogen fluoride	7664-39-3	ST ESL : Short-Term ESL:	22 ppb Health	01 2021	TX ESL:US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended

Hydrogen fluoride	7664-39-3	AN ESL : Annual ESL:	0.6 µg/m3 Vegetation	11 2016	TX ESL:US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
Hydrogen fluoride	7664-39-3	ST ESL : Short-Term ESL:	3.7 ppb Vegetation	01 2021	TX ESL:US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
Hydrogen fluoride	7664-39-3	ST ESL : Short-Term ESL:	18 µg/m3 Health	01 2021	TX ESL:US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
Hydrogen fluoride	7664-39-3	AN ESL : Annual ESL:	0.75 µg/m3	11 2016	TX ESL:US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
Hydrogen fluoride	7664-39-3	AN ESL : Annual ESL:	0.92 ppb	11 2016	TX ESL:US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended

Hydrogen fluoride	7664-39-3	:	Listed	11 2016	TX ESL:US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended

Hydrogen fluoride	7664-39-3	AN ESL : Annual ESL:	8.7 µg/m3 Health	11 2016	TX ESL:US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended

Hydrogen fluoride	7664-39-3	Ceiling : Ceiling Limit Value:	(2 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Further information	:	Expressed as : as F			

Hydrogen fluoride	7664-39-3	TWA : Time weighted average	(0.5 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Further information	:	Expressed as : as F			

Hydrogen fluoride	7664-39-3	Ceil_Time : Ceiling Limit Value and Time Period (if specified) :	5 mg/m3 (6 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended

Hydrogen fluoride	7664-39-3	REL : Recommended exposure limit (REL):	2.5 mg/m3 (3 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended

Hydrogen fluoride	7664-39-3	PEL : Permissible exposure limit	2.5 mg/m3	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Further information	:	Expressed as : as F			

Hydrogen fluoride	7664-39-3	TWA : Time weighted average	(3 ppm)	02 2006	OSHA/Z2:US. OSHA Table Z-2 (29 CFR 1910.1000), as amended

Hydrogen fluoride	7664-39-3	TWA : Time weighted average	(3 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Further information	:	Expressed as : as F			

Hydrogen fluoride	7664-39-3	STEL : Short term exposure limit	(6 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Further information	:	Expressed as : as F			

Hydrogen fluoride	7664-39-3	SKIN_DES : Skin designation:	Danger of cutaneous absorption	01 2020	ACGIH:US. ACGIH Threshold Limit Values, as amended
Further information	:	Expressed as : as F			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Colourless fuming liquid
Color	:	clear
Odor	:	intolerable pungent
pH	:	Note: acidic
Melting point/ range	:	-83 °C
Boiling point/boiling range	:	19.5 °C at 1,013 hPa
Flash point	:	Note: Not applicable
Flammability	:	Not applicable
Lower explosion limit	:	NoteNot applicable
Upper explosion limit	:	Note: Not applicable
Vapor pressure	:	102.8 kPa at 20 °C(68 °F)
Vapor density	:	2.21 at 20 °C
Density	:	ca.1.000 g/cm3at 20 °C
Water solubility	:	Note: completely miscible

Partition coefficient: n-octanol/water	:	Note: No data available
Ignition temperature	:	Note: Not applicable
Auto-ignition temperature	:	Note: not auto-flammable
Decomposition temperature	:	Note: Fire or intense heat may cause violent rupture of packages.
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Molecular weight	:	20.01 g/mol

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Hazardous polymerisation does not occur.
Incompatible materials	:	Glass and silicate-containing materials are attacked. HF contact with glass, concrete and other silicon bearing materials will yield silicon tetrafluoride gas. Pressure buildup from this process has been known to rupture glass containers. HF contact with carbonates, sulfides and cyanides yield toxic gases such as carbon dioxide, hydrogen sulfide and hydrogen cyanide. Contact with alkalies and some oxides cause strong violent exothermic reactions. Contact with metals will yield hydrogen gas, a fire and explosive reactive hazard. On dilution or dissolving in water, considerable heating always occurs. When diluting, add acids to water, never the other way around.
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	Note: No data available
Acute inhalation toxicity	:	LC50: 2240 ppm Exposure time: 1 h Species: Rat, male
Acute dermal toxicity	:	Note: No data available
Eye irritation	:	Note: No data available
Sensitisation	:	Note: No data available
Further information	:	Note: Causes severe burns which may not be immediately painful or visible.The potential delay in clinical signs or symptoms for dilute solutions is given below. HF Concentration (Delay in Symptoms) >50% (Immediately Apparent) 20%-50% (1-8 hours) 0%-20% (Up to 24 hours)Symptoms might include pain, redness of the skin and possible tissue destruction.Hydrofluoric Acid will penetrate skin and attack underlying tissues.May cause hypocalcemia (depletion of calcium in the body) which may be fatal.Chronic exposure to fluoride has been reported to result in tooth mottling in children, bone fluorosis, and sometimes osteosclerosis in adults and children.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish	:	60 mg/l Species: Freshwater fish Note: Lethal

Toxicity to algae : Note: No data available

Toxicity to bacteria : Note: No data available

Elimination information (persistence and degradability)

Biodegradability : Note: Not applicable

Further information on ecology

Additional ecological information : Do not flush into surface water or sanitary sewer system.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT

UN/ID No.	:	UN 1052
Proper shipping name	:	HYDROGEN FLUORIDE, ANHYDROUS
Poison Inhalation Hazard		Hazard zone C
Class		8
Packing group		I
Hazard Labels		8 (6.1)

IATA

UN/ID No.	:	UN 1052
Class	:	8
		Not permitted for transport

IMDG

UN/ID No.	:	UN 1052
Description of the goods	:	HYDROGEN FLUORIDE, ANHYDROUS
Class	:	8
Packaging group	:	I
Hazard Labels	:	8 (6.1)
EmS Number	:	F-C, S-U
Marine pollutant	:	no

IMDG Code segregation group (SGG1) – ACIDS,

SECTION 15. REGULATORY INFORMATION

Inventories

USA. List of Active Substances on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory, as amended	:	All substances listed as active on the TSCA inventory
Australian Inventory of Industrial Chemicals	:	All components are listed on the inventory, regulatory obligations/restrictions apply
Canada. Domestic Substances List (DSL), as amended	:	All components of this product are on the Canadian DSL
Japan. Kashin-Hou Law List	:	On the inventory, or in compliance with the inventory
Korea. Existing Chemicals Inventory (KECI)	:	On the inventory, or in compliance with the inventory
Philippines. Inventory of Chemicals and Chemical Substances (PICCS)	:	On the inventory, or in compliance with the inventory
China. Inventory of Existing Chemical Substances (IECSC)	:	On the inventory, or in compliance with the inventory
Thailand. Existing Chemicals Inventory from FDA (TECI List)	:	On the inventory, or in compliance with the inventory
Taiwan Chemical Substance Inventory (TCSI)	:	On the inventory, or in compliance with the inventory
TSCA 5A	:	US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Proposed Significant New Use Rules (SNURs) (40 CFR 721 and 725) No substances are subject to a Significant New Use Rule.

TSCA 12B	:	US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D) No substances are subject to TSCA 12(b) export notification requirements.

National regulatory information

US. EPA CERCLA Hazardous Substances (40 CFR 302)	:	The following component(s) of this product is/are subject to release reporting under 40 CFR 302 when release exceeds the Reportable Quantity (RQ): Reportable quantity: 100 lbs : Hydrogen fluoride 7664-39-3
SARA 302 Components	:	The following components are subject to reporting levels established by SARA Title III, Section 302: : Hydrogen fluoride 7664-39-3
SARA 313 Components	:	The following components are subject to reporting levels established by SARA Title III, Section 313: : Hydrogen fluoride 7664-39-3
SARA 311/312 Hazards	:	Acute Health Hazard Chronic Health Hazard Reactivity Hazard
CERCLA Reportable Quantity	:	100 lbs
CERCLA Reportable Quantity	:	100 lbs
California Prop. 65	:	**WARNING:**This product can expose you to chemicals, listed below, known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. Arsenic 7440-38-2 Sulphur dioxide 7446-09-5
Massachusetts RTK	:	Hydrogen fluoride 7664-39-3 : Sulphur dioxide 7446-09-5 : Arsenic 7440-38-2

New Jersey RTK	:	Hydrogen fluoride	7664-39-3
Pennsylvania RTK	:	Hydrogen fluoride	7664-39-3

SECTION 16. OTHER INFORMATION

		HMIS III	NFPA
Health hazard	:	4*	4
Flammability	:	0	0
Physical Hazard	:	1	
Instability	:		1

* - Chronic health hazard
Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.
Previous Issue Date: 02/06/2026
Person who prepared the SDS Solstice Product Stewardship Group