

SAFETY DATA SHEET Hydrogen fluoride, anhydrous

Issue Date: 16.01.2013 Version: 1.0 SDS No.: 000010021846

Last revised date: 01.07.2020 1/16

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Hydrogen fluoride, anhydrous

Trade name: Hydrogen fluoride 4.5

Additional identification

Chemical name: Hydrogen fluoride

Chemical formula: HF

INDEX No.009-003-00-1CAS-No.7664-39-3EC No.231-634-8

REACH Registration No. 01-2119458860-33

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Industrial and professional. Perform risk assessment prior to use.

Use as an Intermediate (transported, on-site isolated).

Use for electronic component manufacture.

Using gas alone or in mixtures for the calibration of analysis equipment.

Using gas as feedstock in chemical processes.

Using gas for metal treatment.

Uses advised against Consumer use.

1.3 Details of the supplier of the safety data sheet

Supplier

Oy Linde Gas Ab Telephone: +358 10 2421

Itsehallintokuja 6

FIN-02600 ESPOO Finland

E-mail: sds.ren@linde.com

1.4 Emergency telephone number: Poison Information Center: open 24 hours a day, tel. 09 471 977

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards

Acute toxicity (Oral)

Category 2

H300: Fatal if swallowed.

Acute toxicity (Dermal)

Category 1

H310: Fatal in contact with skin.

SDS_FI - 000010021846



Issue Date: 16.01.2013 Version: 1.0 SDS No.: 000010021846

Last revised date: 01.07.2020 2/16

Acute toxicity (Inhalation - vapor) Category 2 H330: Fatal if inhaled. Acute toxicity (Inhalation - dust and Category 2 H330: Fatal if inhaled.

mist)

Skin corrosion Category 1A H314: Causes severe skin burns and eye damage.

Serious eye damage Category 1 H318: Causes serious eye damage.

2.2 Label Elements

Contains: Hydrogen fluoride



Signal Word: Danger

Hazard Statement(s): H300+H310+H330: Fatal if swallowed, in contact with skin or if inhaled.

H314: Causes severe skin burns and eye damage.

Precautionary Statements

General None.

Prevention: P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P262: Do not get in eyes, on skin, or on clothing. P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face

protection.

Response: P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water [or shower]. P310: Immediately call a POISON CENTER/doctor.

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.

Storage: P403+P233: Store in a well-ventilated place. Keep container tightly closed.

Disposal None.

Supplemental information

EUH071: Corrosive to the respiratory tract.



SAFETY DATA SHEET Hydrogen fluoride, anhydrous

Issue Date: 16.01.2013 Version: 1.0 SDS No.: 000010021846

Last revised date: 01.07.2020 3/16

2.3 Other hazards None.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical nameHydrogen fluorideINDEX No.:009-003-00-1CAS-No.:7664-39-3EC No.:231-634-8

REACH Registration No.: 01-2119458860-33

Purity: 100%

The purity of the substance in this section is used for classification only, and does not represent the actual purity of the substance as supplied, for which other

documentation should be consulted.

Trade name: Hydrogen fluoride 4.5

Chemical name	Chemical formula	Concentration	CAS-No.	REACH Registration No.	M-Factor:	Notes
Hydrogen fluoride	HF	100%	7664-39-3	01- 2119458860-	-	#

The concentrations of the components in the SDS header, product name on page one and in section 3.2 are in mol due to regulatory requirements. All concentrations are nominal.

SECTION 4: First aid measures

General: Remove victim to uncontaminated area wearing self contained breathing

apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if

breathing stopped.

4.1 Description of first aid measures

Inhalation: Move the exposed person to fresh air at once. If breathing stops, provide artificial

respiration. Symptoms may include: Dizziness. Nausea, vomiting.

Eye contact: Rinse the eye with water immediately. Remove contact lenses, if present and easy

to do. Continue rinsing. Flush thoroughly with water for at least 15 minutes. Get immediate medical assistance. If medical assistance is not immediately available,

flush an additional 15 minutes.

Skin Contact: Immediately flush with plenty of water for at least 15 minutes while removing

contaminated clothing and shoes. Get medical attention immediately.

^{# #} This substance has workplace exposure limit(s)

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



Issue Date: 16.01.2013 Version: 1.0 SDS No.: 000010021846

Last revised date: 01.07.2020 4/16

Ingestion: Do not induce vomiting. If vomiting occurs, the head should be kept low so that

stomach vomit doesn't enter the lungs. Get medical attention immediately.

4.2 Most important symptoms and

effects, both acute and

delayed:

Causes severe skin burns and eye damage. May be fatal if swallowed. May be fatal

if inhaled.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: Causes severe skin burns and eye damage. May be fatal if swallowed. May be fatal

if inhaled.

Treatment: Do not give direct mouth-to-mouth resuscitation if swallowed. To protect rescuer,

use air-viva, oxy-viva or one-way mask. Resuscitate in a well-ventilated area. If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately. Treat with a corticosteroid spray as soon as

possible after inhalation. Get immediate medical advice/attention.

SECTION 5: Firefighting measures

General Fire Hazards: Heat may cause the containers to explode.

5.1 Extinguishing media

Suitable extinguishing media: Use water spray to reduce vapors or divert vapor cloud drift. Water Spray or Fog.

Dry powder. Foam. Carbon Dioxide. In case of fire in the surroundings: use

appropriate extinguishing media.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the

substance or mixture:

Fire or excessive heat may produce hazardous decomposition products. Not combustible, but if involved in a fire is extremely irritating. Evolves heat when

combined with water.

Hazardous Combustion Products: None that are more toxic than the product itself.

5.3 Advice for firefighters

Special fire fighting

procedures:

In case of fire: Stop leak if safe to do so. Use of water may result in the formation of very toxic aqueous solutions. Keep run-off water out of sewers and water sources. Dike for water control. Continue water spray from protected position until

container stays cool. Use extinguishants to contain the fire. Isolate the source of

the fire or let it burn out.

Special protective equipment

for fire-fighters:

Gas tight chemically protective clothing (Type 1) in combination with self

contained breathing apparatus.



Issue Date: 16.01.2013 Version: 1.0 SDS No.: 000010021846

Last revised date: 01.07.2020 5/16

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Evacuate area. Provide adequate ventilation. Monitor the concentration of the released product. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. EN 137 Respiratory protective devices - Self-contained open-circuit compressed air breathing apparatus with full face mask - Requirements, testing, marking.

6.2 Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Reduce vapour with fog or fine water spray. Keep run-off water out of sewers and water sources. Dike for water control.

6.3 Methods and material for containment and cleaning up:

Provide adequate ventilation. Wash contaminated equipment or sites of leaks with copious quantities of water.

6.4 Reference to other sections:

Refer to sections 8 and 13.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

Do not handle until all safety precautions have been read and understood. Avoid exposure - obtain special instructions before use. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Refer to supplier's handling instructions. The substance must be handled in accordance with good industrial hygiene and safety procedures. Protect containers from physical damage; do not drag, roll, slide or drop. Do not remove or deface labels provided by the supplier for the identification of the container contents. When moving containers, even for short distances, use appropriate equipment eq. trolley, hand truck, fork truck etc. Provide adequate ventilation. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Keep container below 50°C in a well ventilated place. Avoid suckback of water, acid and alkalis. Observe all regulations and local requirements regarding storage of containers. When using do not eat, drink or smoke. Store in accordance with local/regional/national/international regulations. Never use direct flame or electrical heating devices to raise the pressure of a container. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use.

7.2 Conditions for safe storage, including any incompatibilities:

Containers should not be stored in conditions likely to encourage corrosion. Keep away from food, drink and animal feeding stuffs. Stored containers should be periodically checked for general conditions and leakage. Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible material.

7.3 Specific end use(s):

None.



Issue Date: 16.01.2013 Version: 1.0 SDS No.: 000010021846

Last revised date: 01.07.2020 6/16

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Туре	Exposure Limit Values	Source	
Hydrogen fluoride	TWA	1,8 ppm 1,5 mg/m3	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU (12 2009)	
	STEL	3 ppm 2,5 mg/m3	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU (12 2009)	
	HTP 8H	1,8 ppm 1,5 mg/m3	Finland. Workplace Exposure Limits (2009)	
	HTP 15MIN	3 ppm 2,5 mg/m3	Finland. Workplace Exposure Limits (2009)	

Biological Limit Values

Chemical name	Exposure Limit Values	Source
Hydrogen fluoride (Fluoride: Sampling time: End of shift.)	8 mg/l (Urine)	EU BLV/BGV (2014)

DNEL-Values

Critical component	Туре	Value	Remarks
Hydrogen fluoride	Workers - Inhalation,	1,5 mg/m3	Repeated dose toxicity
	Systemic, long-term		
	Workers - Inhalation, Local,	1,5 µg/m3	Repeated dose toxicity
	long-term		
	Workers - Inhalation, Local,	2,5 mg/m3	respiratory tract irritation
	short-term		
	Workers - Inhalation,	2,5 mg/m3	respiratory tract irritation
	Systemic, short-term		
	Workers - Eyes, Local effect		No data available

PNEC-Values

Critical component	Туре	Value	Remarks



Issue Date: 16.01.2013 Version: 1.0 SDS No.: 000010021846

Last revised date: 01.07.2020 7/16

Hydrogen fluoride	Soil	11 mg/kg	-
Hydrogen fluoride	Aquatic (marine water)	0,9 mg/l	-
Hydrogen fluoride	Aquatic (freshwater)	0,9 mg/l	-
Hydrogen fluoride	Sewage treatment plant	51 mg/l	-

8.2 Exposure controls

Appropriate engineering controls:

Consider a work permit system e.g. for maintenance activities. Ensure adequate air ventilation. Provide adequate general and local exhaust ventilation. Keep concentrations well below occupational exposure limits. Gas detectors should be used when toxic quantities may be released. Systems under pressure should be regularly checked for leakages. Product to be handled in a closed system and under strictly controlled conditions. Only use permanent leak tight installations (e.g. welded pipes). Do not eat, drink or smoke when using the product.

Individual protection measures, such as personal protective equipment

General information: A risk assessment should be conducted and documented in each work area to

assess the risks related to the use of the product and to select the PPE that matches the relevant risk. The following recommendations should be considered. Keep self contained breathing apparatus readily available for emergency use. Keep suitable chemically resistant protective clothing readily available for emergency use. Personal protective equipment for the body should be selected based on the task being performed and the risks involved. For waste disposal, see section 13 of the SDS. Protect eyes, face and skin from contact with product.

Eye/face protection: Safety eyewear, goggles or face-shield to EN166 should be used to avoid

exposure to liquid splashes. Wear eye protection to EN 166 when using gases.

Skin protection

Hand Protection: Guideline: EN 388 Protective gloves against mechanical risks.

Additional Information: Wear working gloves while handling containers Guideline: EN 374-1/2/3 Protective gloves against chemicals and micro-

organisms.

Additional Information: Chemically resistant gloves complying with EN 374 should

be worn at all times when handling chemical products if a risk assessment

indicates this is necessary.

Material: Fluoroelastomer.

Break-through time: > 480 min
Glove thickness: 0,7 mm

Body protection: No special precautions.



Issue Date: 16.01.2013 Version: 1.0 SDS No.: 000010021846

Last revised date: 01.07.2020 8/16

Other: Not applicable.

Respiratory Protection: Reference should be made to European Standard EN 689 for methods for the

assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances. The selection of the Respiratory Protective Device (RPD) must be based on known or anticipated exposure levels, the hazards of the product and the safe working

limits of the selected RPD.

Material: Filter E

Guideline: EN 14387 Respiratory protective devices. Gas filter(s) and combined

filter(s). Requirements, testing, marking.

Guideline: EN 136 Respiratory protective devices. Full face masks. Requirements,

testing, marking.

Guideline: EN 137 Respiratory protective devices - Self-contained open-circuit compressed air breathing apparatus with full face mask - Requirements, testing,

marking.

Thermal hazards: Not applicable.

Hygiene measures: Obtain special instructions before use. Specific risk management measures are not

required beyond good industrial hygiene and safety procedures. Do not eat, drink

or smoke when using the product.

Environmental exposure

controls:

For waste disposal, see section 13 of the SDS.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:liquidForm:liquidColor:Colorless

Odor: Strong irritating odor

Odor Threshold: Odor threshold is subjective and is inadequate to warn of over

exposure.

pH: If dissolved in water pH-value will be affected.

Freezing point: -83,37 °C Experimental result, Weight of Evidence study

Boiling Point: 19,51 °C Experimental result, Weight of Evidence study

Sublimation Point:Not applicable.Critical Temp. (°C):188,0 °C

Flash Point:Not applicable to gases and gas mixtures. **Evaporation Rate:**Not applicable to gases and gas mixtures.



Issue Date: 16.01.2013 Version: 1.0 SDS No.: 000010021846

Last revised date: 01.07.2020 9/16

Flammability (solid, gas):

This product is not flammable.

Flammability Limit - Upper (%): Not applicable. Flammability Limit - Lower (%): Not applicable.

Vapor pressure: 100 kPa (20 °C) Experimental result, Weight of Evidence study

Vapor density (air=1): 0,7

Relative density: 0,991 (19,54 °C)

Solubility(ies)

Solubility in Water: Completely Soluble

Partition coefficient (n-octanol/water): Not known.

Autoignition Temperature: Not applicable.

Decomposition Temperature: When heated to decomp, emits highly corrosive fumes of

hydrogen fluoride.

Viscosity

Kinematic viscosity:No data available.Dynamic viscosity:0,256 mPa.s (0 °C)Explosive properties:Not applicable.Oxidizing properties:Not applicable.

9.2 Other information: None.

Molecular weight: 20,01 g/mol (HF)

VOC Content: EC Directive 2004/42: 0,97 g/l ~100 % (calculated)

SECTION 10: Stability and reactivity

10.1 Reactivity: No reactivity hazard other than the effects described in sub-section below.

10.2 Chemical Stability: Stable under normal conditions.

10.3 Possibility of hazardous

reactions:

No data available.

10.4 Conditions to avoid: No data available.

10.5 Incompatible Materials: Metals, water or steam [Note: Corrosive to metals. Will attack glass and concrete.]

10.6 Hazardous Decomposition

Products:

Under normal conditions of storage and use, hazardous decomposition products

should not be produced.



Issue Date: 16.01.2013 Version: 1.0 SDS No.: 000010021846

Last revised date: 01.07.2020 10/16

SECTION 11: Toxicological information

General information: Absorption of excessive F- can result in acute systemic fluorosis with

hypocalcaemia interference with various metabolic functions and organ damage

(heart, liver, kidneys).

11.1 Information on toxicological effects

Acute toxicity - Oral

Product Fatal if swallowed.

Acute toxicity - Dermal

Product Fatal in contact with skin.

Acute toxicity - Inhalation

Product Fatal if inhaled. Fatal if inhaled.

Hydrogen fluoride LC 50 (Rat, 1 h): 966 ppm

Repeated dose toxicity

Hydrogen fluoride NOAEL (Rat(Female, Male), Inhalation, 15 d): 1 ppm(m) Inhalation Experimental

result, Key study

Skin Corrosion/Irritation

Product Causes severe burns.

Hydrogen fluoride in vivo (Rabbit): Corrosive Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product Causes serious eye damage.

Respiratory or Skin Sensitization

Product Based on available data, the classification criteria are not met.

Germ Cell Mutagenicity

Product Based on available data, the classification criteria are not met.

Carcinogenicity

Product Based on available data, the classification criteria are not met.

Reproductive toxicity

Product Based on available data, the classification criteria are not met.



SAFETY DATA SHEET Hydrogen fluoride, anhydrous

Issue Date: 16.01.2013 Version: 1.0 SDS No.: 000010021846

Last revised date: 01.07.2020 11/16

Specific Target Organ Toxicity - Single Exposure

Product Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure

Product Based on available data, the classification criteria are not met.

Aspiration Hazard

Product No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Product No ecological damage caused by this product.

Acute toxicity - Fish

Hydrogen fluoride LC 50 (96 h): 51 mg/l Remarks: Other, Weight of Evidence study

Acute toxicity - Aquatic Invertebrates

Hydrogen fluoride EC 50 (Trichoptera aquatic larvae, 96 h): 26 - 48 mg/l (Static) Remarks:

Experimental result, Key study

Toxicity to microorganisms

Hydrogen fluoride EC 50 (Alga, 72 h): 43 - 122 mg/l

Chronic Toxicity - Aquatic Invertebrates

Hydrogen fluoride NOAEL (Daphnia magna, 21 d): 3,7 mg/l (Static) Experimental result, Key study

12.2 Persistence and Degradability

Product Not applicable to gases and gas mixtures...

12.3 Bioaccumulative potential

Product The subject product is expected to biodegrade and is not expected to persist for

long periods in an aquatic environment.

Bioconcentration Factor (BCF)

Hydrogen fluoride Bioconcentration Factor (BCF): 53 - 58 Aquatic sediment Other, Key study



SAFETY DATA SHEET Hydrogen fluoride, anhydrous

Issue Date: 16.01.2013 Version: 1.0 SDS No.: 000010021846

Last revised date: 01.07.2020 12/16

12.4 Mobility in soil

Product Because of its high volatility, the product is unlikely to cause ground or water

pollution.

12.5 Results of PBT and vPvB

assess ment

Product Not classified as PBT or vPvB.

12.6 Other adverse effects:

Other Ecological Information

May cause pH changes in aqueous ecological systems.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: Avoid discharges to atmosphere. Consult supplier for specific recommendations.

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at

time of disposal.

Disposal methods: Dispose of container via supplier only. Discharge, treatment, or disposal may be

subject to national, state, or local laws.

European Waste Codes

Container: 16 05 07*: discarded inorganic chemicals consisting of or containing dangerous

substances

SECTION 14: Transport information

ADR

14.1 UN Number: UN 1052

14.2 UN Proper Shipping Name: HYDROGEN FLUORIDE, ANHYDROUS

14.3 Transport Hazard Class(es)

Class: 8
Label(s): 8, 6.1
Hazard No. (ADR): 886
Tunnel restriction code: (C/D)

14.4 Packing Group:

14.5 Environmental hazards: Not applicable

14.6 Special precautions for user: –



SAFETY DATA SHEET Hydrogen fluoride, anhydrous

Issue Date: 16.01.2013 Version: 1.0 SDS No.: 000010021846

Last revised date: 01.07.2020 13/16

RID

14.1 UN Number: UN 1052

14.2 UN Proper Shipping Name HYDROGEN FLUORIDE, ANHYDROUS

14.3 Transport Hazard Class(es)

Class: 8
Label(s): 8, 6.1
14.4 Packing Group: I

14.5 Environmental hazards: Not applicable

14.6 Special precautions for user: –

IMDG

14.1 UN Number: UN 1052

14.2 UN Proper Shipping Name: HYDROGEN FLUORIDE, ANHYDROUS

14.3 Transport Hazard Class(es)

 Class:
 8

 Label(s):
 8, 6.1

 EmS No.:
 F-C, S-U

14.4 Packing Group:

14.5 Environmental hazards: Not applicable

14.6 Special precautions for user: -

IATA

14.1 UN Number: UN 1052

14.2 Proper Shipping Name: Hydrogen fluoride, anhydrous

14.3 Transport Hazard Class(es):

Class: 8
Label(s):
14.4 Packing Group: I

14.5 Environmental hazards: Not applicable

14.6 Special precautions for user: –

Other information

Passenger and cargo aircraft: Forbidden. Cargo aircraft only: Forbidden.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

Additional identification: Avoid transport on vehicles where the load space is not separated from

the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers ensure that they are firmly secured. Ensure that the container valve is closed and not

leaking. Ensure adequate air ventilation.



Issue Date: 16.01.2013 Version: 1.0 SDS No.: 000010021846

Last revised date: 01.07.2020 14/16

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Regulations

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, as amended.:

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
Hydrogen fluoride	7664-39-3	100%

National Regulations

Council Directive 89/391/EEC on the introduction of measures to encourage improvements in the safety and health of workers at work Directive 89/686/EEC on personal protective equipment Only products that comply with the food regulations (EC) No. 1333/2008 and (EU) No. 231/2012 and are labelled as such may be used as food additives

This Safety Data Sheet has been produced to comply with Regulation (EU) 2015/830.

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: Not relevant.



Issue Date: 16.01.2013 Version: 1.0 SDS No.: 000010021846

Last revised date: 01.07.2020 15/16

Key literature references and sources for data:

Various sources of data have been used in the compilation of this SDS, they include

but are not exclusive to:

Agency for Toxic Substances and Diseases Registry (ATSDR)

(http://www.atsdr.cdc.gov/).

European Chemical Agency: Guidance on the Compilation of Safety Data Sheets.

European Chemical Agency: Information on Registered Substances http://apps.echa.europa.eu/registered/registered-sub.aspx#search

European Industrial Gases Association (EIGA) Doc. 169 "Classification and Labelling

guide", as amended.

International Programme on Chemical Safety (http://www.inchem.org/) ISO 10156:2010 Gases and gas mixtures - Determination of fire potential and

oxidizing ability for the selection of cylinder valve outlets.

Matheson Gas Data Book, 7th Edition.

 ${\tt National\ Institute\ for\ Standards\ and\ Technology\ (NIST)\ Standard\ Reference\ Database}$

Number 69.

The ESIS (European chemical Substances 5 Information System) platform of the former European Chemicals Bureau (ECB) ESIS (http://ecb.jrc.ec.europa.eu/esis/).

The European Chemical Industry Council (CEFIC) ERICards.

United States of America's National Library of Medicine's toxicology data network

TOXNET (http://toxnet.nlm.nih.gov/index.html)

Threshold Limit Values (TLV) from the American Conference of Governmental

Industrial Hygienists (ACGIH).

Substance specific information from suppliers.

Details given in this document are believed to be correct at the time of publication.

Wording of the H-statements in section 2 and 3

H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H330	Fatal if inhaled.

Training information: Users of breathing apparatus must be trained. Ensure operators understand the

toxicity hazard.

Inventory Status

EU list of existing chemical

substances:

У



SAFETY DATA SHEET Hydrogen fluoride, anhydrous

Issue Date: 16.01.2013 Version: 1.0 SDS No.: 000010021846

Last revised date: 01.07.2020 16/16

Classification according to Regulation (EC) No 1272/2008 as amended.

Acute Tox. 2, H300 Acute Tox. 1, H310 Acute Tox. 2, H330 Acute Tox. 2, H330 Skin Corr. 1A, H314 Eye Dam. 1, H318

Other information: Before using this product in any new process or experiment, a thorough material

compatibility and safety study should be carried out. Ensure adequate air ventilation. Ensure all national/local regulations are observed. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting

from its use can be accepted.

Last revised date: 01.07.2020

Disclaimer: This information is provided without warranty. The information is believed to be

correct. This information should be used to make an independent determination of

the methods to safeguard workers and the environment.