

**Section 1: Identification of the Substance/Mixture and of the Company/Undertaking**

**1.1 Product identifier**

**Product Name** • **Electrical Joint Compound No. 2**  
**Synonyms** • EJC No. 2

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

**Relevant identified use(s)** • Corrosion inhibitor.

**1.3 Details of the supplier of the safety data sheet**

**Manufacturer** • AFL Telecommunications  
 170 Ridgeview Circle  
 Duncan, SC 29334  
 United States  
 www.aflglobal.com

**Telephone (General)** • 1-864-433-0333

**1.4 Emergency telephone number**

**Manufacturer** • 1-800-424-9300 - CHEMTREC

**Section 2: Hazards Identification**

**United States (US)**

According to OSHA 29 CFR 1910.1200 HCS

**2.1 Classification of the substance or mixture**

**OSHA HCS 2012** • Skin Corrosion 1B - H314  
 Serious Eye Damage 1 - H318

**2.2 Label elements**

OSHA HCS 2012

**DANGER**



**Hazard statements** • Causes severe skin burns and eye damage. - H314  
 Causes serious eye damage - H318

**Precautionary statements**

**Prevention** • Do not breathe mist, vapours or spray. - P260  
 Wash thoroughly after handling. - P264  
 Wear protective gloves- Gloves, clothing - Full Body Suit, and eye/face protection - Face Shield & Eye Protection, - Face Shield & Eye Protection. - P280

- Response** • IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P340  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. - P303+P361+P353  
 Wash contaminated clothing before reuse. - P363  
 Immediately call a POISON CENTER or doctor/physician. - P310  
 Specific treatment, see supplemental first aid information. - P321  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338  
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. - P301+P330+P331

- Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

## 2.3 Other hazards

- OSHA HCS 2012** • Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

## Canada

According to WHMIS

### 2.1 Classification of the substance or mixture

- WHMIS** • Other Toxic Effects - D2A  
 Corrosive - E

### 2.2 Label elements

**WHMIS**



- Other Toxic Effects - D2A  
 Corrosive - E

### 2.3 Other hazards

- WHMIS** • In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

## EU/EEC

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

### 2.1 Classification of the substance or mixture

- CLP**
- Acute Toxicity Dermal 2 - H310
  - Skin Corrosion 1B - H314
  - Serious Eye Damage 1 - H318
  - Hazardous to the aquatic environment Acute 1 - H400
  - Hazardous to the aquatic environment Chronic 1 - H410

- DSD/DPD**
- Toxic (T)
  - Corrosive (C)
  - R24, R34

## 2.2 Label Elements

### CLP

#### DANGER



- Hazard statements**
- H310 - Fatal in contact with skin
  - H314 - Causes severe skin burns and eye damage.
  - H318 - Causes serious eye damage
  - H400 - Very toxic to aquatic life
  - H410 - Very toxic to aquatic life with long lasting effects

#### Precautionary statements

- Prevention**
- P260 - Do not breathe mist, vapours or spray.
  - P262 - Do not get in eyes, on skin, or on clothing.
  - P264 - Wash thoroughly after handling.
  - P270 - Do not eat, drink or smoke when using this product.
  - P273 - Avoid release to the environment.
  - P280 - Wear protective gloves, clothing - Full Body Suit, and eye/face protection - Face Shield & Eye Protection, .
- Response**
- P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - P363 - Wash contaminated clothing before reuse.
  - P310 - Immediately call a POISON CENTER or doctor/physician.
  - P321 - Specific treatment, see supplemental first aid information.
  - P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
  - P391 - Collect spillage.

- Storage/Disposal**
- P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

### DSD/DPD



- Risk phrases**
- R24 - Toxic in contact with skin.
  - R34 - Causes burns.

- Safety phrases**
- S27 - Take off immediately all contaminated clothing.
  - S36 - Wear suitable protective clothing.
  - S37 - Wear suitable gloves.
  - S39 - Wear eye/face protection.
  - S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## 2.3 Other Hazards

- CLP**
- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

- DSD/DPD**
- According to European Directive 1999/45/EC this material is considered dangerous.

## Section 3 - Composition/Information on Ingredients

### 3.1 Substances

- Material does not meet the criteria of a substance.

### 3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Hydrofluoric acid	CAS:7664-39-3 EC Number:231-634-8 EU Index:009-002-00-6	< 5%	Inhalation-Rat LC50 • 1100 mg/m <sup>3</sup> 60 Minute(s)	EU DSD/DPD: Annex VI, Table 3.2: T+; R26/27/28; C; R35 EU CLP: Annex VI, Table 3.1: Acute Tox. 2, H330; Acute Tox. 1, H310; Acute Tox. 2, H300; Skin Corr. 1A, H314; OSHA HCS 2012: Acute Tox. 3 (inhl); Skin Corr. 1A; Eye Dam. 1	NDA

See Section 11 for Toxicological Information. See Section 16 for full text of H-statements and R-phrases.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

- Inhalation**
- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- Skin**
- IF ON SKIN: Wash with plenty of soap and water. Remove and isolate contaminated clothing. If irritation develops and persists, get medical attention.
- Eye**
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
- Ingestion**
- If swallowed, rinse mouth with water (only if the person is conscious) Do NOT induce vomiting. Do not use mouth-to-mouth method if victim ingested the substance. Obtain medical attention immediately if ingested.

### 4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Notes to Physician**
- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Topical therapy with 2.5% calcium gluconate gel should be used to treat patients with symptoms of hydrofluoric acid skin burns.

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

- Suitable Extinguishing Media**
- LARGE FIRES: Dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray.
  - SMALL FIRES: Dry chemical, CO<sub>2</sub> or water spray.
- Unsuitable Extinguishing Media**
- No data available

### 5.2 Special hazards arising from the substance or mixture

- Unusual Fire and**
- Non-combustible, substance itself does not burn but may decompose upon heating to

**Explosion Hazards** produce corrosive and/or toxic fumes.

**Hazardous Combustion Products** • May include, and are not limited to: oxides of carbon and hydrogen fluoride gas.

### 5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible. Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Wear positive pressure self-contained breathing apparatus (SCBA). SMALL FIRES: Move containers from fire area if you can do it without risk.

## Section 6 - Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**Personal Precautions** • Wear appropriate protective clothing. Do not walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate enclosed areas.

**Emergency Procedures** • ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Do not get water inside container.

### 6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

### 6.3 Methods and material for containment and cleaning up

**Containment/Clean-up Measures** • Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container. Do not flush to sewer or allow to enter waterways.

### 6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

**Handling** • Avoid contact with skin, eyes or clothing. Handle and open container with care. Do not taste or swallow. Use only with adequate ventilation. In accordance with good industrial hygiene practices, precautions should be taken to avoid contact. If contact occurs, wash hands, face and other potentially exposed areas immediately after handling material (especially before eating, drinking, or smoking).

### 7.2 Conditions for safe storage, including any incompatibilities

**Storage** • Keep away from incompatible materials. Keep container/package tightly closed in a cool, well-ventilated place. Ventilate enclosed areas.

### 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

Exposure Limits/Guidelines					
Result	ACGIH	Canada Ontario	Canada Quebec	Cyprus	Czech Republic

Hydrofluoric acid (7664-39-3)	Ceilings	2 ppm Ceiling (as F)	2 ppm Ceiling (as F)	3 ppm Ceiling (as F); 2.6 mg/m3 Ceiling (as F)	Not established	2.5 mg/m3 Ceiling
	TWAs	0.5 ppm TWA (as F)	0.5 ppm TWA (as F)	Not established	Not established	1.5 mg/m3 TWA
	STELs	Not established	Not established	Not established	3.0 ppm STEL; 2.5 mg/m3 STEL	Not established
<b>Exposure Limits/Guidelines (Con't.)</b>						
	<b>Result</b>	<b>Denmark</b>	<b>Estonia</b>	<b>Finland</b>	<b>France</b>	<b>Germany DFG</b>
Hydrofluoric acid (7664-39-3)	TWAs	1.8 ppm TWA; 1.5 mg/m3 TWA	1.8 ppm TWA; 1.5 mg/m3 TWA	1.8 ppm TWA; 1.5 mg/m3 TWA	1.8 ppm TWA [VME] (restrictive limit); 1.5 mg/m3 TWA [VME] (restrictive limit)	Not established
	STELs	Not established	3 ppm STEL; 2.5 mg/m3 STEL	3 ppm STEL; 2.5 mg/m3 STEL	3 ppm STEL [VLCT] (restrictive limit); 2.5 mg/m3 STEL [VLCT] (restrictive limit)	Not established
	Ceilings	Not established	Not established	Not established	Not established	2 ppm Peak; 1.66 mg/m3 Peak
	MAKs	Not established	Not established	Not established	Not established	1 ppm TWA MAK; 0.83 mg/m3 TWA MAK
<b>Exposure Limits/Guidelines (Con't.)</b>						
	<b>Result</b>	<b>Germany TRGS</b>	<b>Greece</b>	<b>Hungary</b>	<b>Ireland</b>	<b>Italy</b>
Hydrofluoric acid (7664-39-3)	TWAs	1 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 0.83 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	3 ppm TWA; 2.5 mg/m3 TWA	1.5 mg/m3 TWA [AK]	1.8 ppm TWA (as F); 1.5 mg/m3 TWA (as F)	1.8 ppm TWA; 1.5 mg/m3 TWA
	STELs	Not established	3 ppm STEL; 2.5 mg/m3 STEL	2.5 mg/m3 STEL [CK]	3 ppm STEL (as F); 2.5 mg/m3 STEL (as F)	3 ppm STEL; 2.5 mg/m3 STEL
<b>Exposure Limits/Guidelines (Con't.)</b>						
	<b>Result</b>	<b>Malta</b>	<b>Netherlands</b>	<b>NIOSH</b>	<b>OSHA</b>	<b>Poland</b>
Hydrofluoric acid (7664-39-3)	STELs	3 ppm STEL; 2.5 mg/m3 STEL	1 mg/m3 STEL (as F)	Not established	Not established	2 mg/m3 STEL [NDSch]
	TWAs	1.8 ppm TWA; 1.5 mg/m3 TWA	Not established	3 ppm TWA; 2.5 mg/m3 TWA	3 ppm TWA (as F)	0.5 mg/m3 TWA [NDS]
	Ceilings	Not established	Not established	6 ppm Ceiling (15 min); 5 mg/m3 Ceiling (15 min)	Not established	Not established
<b>Exposure Limits/Guidelines (Con't.)</b>						
	<b>Result</b>	<b>Portugal</b>	<b>Slovenia</b>	<b>Spain</b>	<b>Sweden</b>	
Hydrofluoric acid (7664-39-3)	Ceilings	2 ppm Ceiling [VLE- CM] (as F)	Not established	Not established	2 ppm CLV; 1.7 mg/m3 CLV	
	TWAs	0.5 ppm TWA [VLE- MP] (as F)	1.8 ppm TWA; 1.5 mg/m3 TWA	1.8 ppm TWA [VLA- ED] (indicative limit value); 1.5 mg/m3 TWA [VLA-ED] (indicative limit value)	Not established	
	STELs	Not established	2.7 ppm STEL; 2.25 mg/m3 STEL	3 ppm STEL [VLA- EC]; 2.5 mg/m3 STEL [VLA-EC]	Not established	

	Biological Limit Values (BLV)	Not established	Not established	8 mg/L urine end of shift Fluorides (2,F,I)	Not established
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## Exposure Control Notations

### Hungary

•Hydrofluoric acid (7664-39-3): **Skin:** (potential for cutaneous absorption)

### Finland

•Hydrofluoric acid (7664-39-3): **Skin:** (Potential for cutaneous absorption)

### Ireland

•Hydrofluoric acid (7664-39-3): **Skin:** (Potential for cutaneous absorption)

### Germany TRGS

•Hydrofluoric acid (7664-39-3): **Skin:** (skin notation)

### Germany DFG

•Hydrofluoric acid (7664-39-3): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)

## 8.2 Exposure controls

### Engineering

- Use only with adequate ventilation to keep exposures (airborne levels of dust, fume, vapor etc) below recommended exposure limits.

### Measures/Controls

### Personal Protective Equipment

#### Respiratory

- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

#### Eye/Face

- Wear eye/face protection , - Face Shield & Eye Protection.

#### Hands

- Wear protective gloves appropriate for use with Hydrofluoric Acid.

#### Skin/Body

- Wear protective clothing - Full Body Suit/apron or full body suit and boots depending on

#### General Industrial Hygiene

- Handle in accordance with good industrial hygiene and safety practice. Do not get in eyes or on skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

#### Considerations

#### Environmental Exposure

- Follow best practice for site management and disposal of waste.

#### Controls

#### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

NIOSH = National Institute of Occupational Safety and Health

VME = Valeur Moyenne d'Exposition is the maximum permissible concentration for a work day

OSHA = Occupational Safety and Health Administration

VLA-EC = Valor Límite Ambiental Exposición de Corta Duración is the short-term exposure limit based on 15-minute exposure

STEL = Short Term Exposure Limits are based on 15-minute exposures

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Brown grease.
Color	Brown	Odor	Light amine odor.
Odor Threshold	-		
General Properties			
Boiling Point	-	Melting Point	51 C(123.8 F)
□ Decomposition Temperature	-	□ pH	-
Specific Gravity/Relative Density	0.95 Water=1	Water Solubility	Negligible < 0.1 %
Viscosity	-	Explosive Properties	Not explosive.

Oxidizing Properties:	-		
<b>Volatility</b>			
Vapor Pressure	< 0.01 mmHg (torr) @ 68 F(20 C)	Vapor Density	-
Evaporation Rate	-		
<b>Flammability</b>			
Flash Point	450 F(232.2222 C)	UEL	-
LEL	-	Autoignition	-
Flammability (solid, gas)	Not flammable.		
<b>Environmental</b>			
Octanol/Water Partition coefficient	-		

## 9.2 Other Information

- No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

- Stable

### 10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

### 10.4 Conditions to avoid

- Incompatible materials. Excess heat.

### 10.5 Incompatible materials

- Oxidizers

### 10.6 Hazardous decomposition products

- May include, and are not limited to: oxides of carbon and hydrogen fluoride gas.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

	CAS	
Electrical Joint Compound No. 2	NDA	<b>Acute Toxicity:</b> Ingestion/Oral-Rat, adult female LD50 • >2000 mg/kg • Comments: All animals survived
<b>Components</b>		
Hydrofluoric acid (< 5%)	7664-39-3	<b>Acute Toxicity:</b> Inhalation-Rat LC50 • 1276 ppm; <b>Irritation:</b> Eye-Human • 50 mg • Severe irritation; Skin-Rat • 50 % 3 Minute(s) • Severe irritation; <b>Reproductive:</b> Inhalation-Rat TCLo • 470 µg/m <sup>3</sup> 4 Hour(s)(1-22D preg); <i>Reproductive Effects:Effects on Fertility:Pre-implantation mortality; Reproductive Effects:Effects on Fertility:Post-implantation mortality</i>

GHS Properties	Classification
Acute toxicity	<b>EU/CLP</b> •Acute Toxicity - Dermal 2 - ATEmix (dermal) = 102 mg/kg <b>OSHA HCS 2012</b> • -
Aspiration Hazard	<b>EU/CLP</b> • - <b>OSHA HCS 2012</b> • -
Carcinogenicity	<b>EU/CLP</b> • -



	OSHA HCS 2012• -
Germ Cell Mutagenicity	EU/CLP• - OSHA HCS 2012• -
Skin corrosion/Irritation	EU/CLP•Skin Corrosion 1B OSHA HCS 2012•Skin Corrosion 1B
Skin sensitization	EU/CLP• - OSHA HCS 2012• -
STOT-RE	EU/CLP• - OSHA HCS 2012• -
STOT-SE	EU/CLP• - OSHA HCS 2012• -
Toxicity for Reproduction	EU/CLP• - OSHA HCS 2012• -
Respiratory sensitization	EU/CLP• - OSHA HCS 2012• -
Serious eye damage/Irritation	EU/CLP•Serious Eye Damage 1 OSHA HCS 2012•Serious Eye Damage 1

## Potential Health Effects

### Inhalation

#### Acute (Immediate)

- An aerosol generation with the test item per se was not possible at room temperature, but also not at a temperature of 70°C, as the test item solidified immediately after contact with room temperature. The test item was insoluble in water and in dimethyl sulfoxide. Under the present test conditions no aerosol could be generated with the required mass median aerodynamic diameter (MMAD) ranging from 1 um to 4 um (as requested by the OECD guideline 403).

#### Chronic (Delayed)

- Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.

### Skin

#### Acute (Immediate)

- Fatal in contact with skin. Causes severe skin burns and eye damage. In accordance to the OECD Guideline 431 the test item is considered to be corrosive to skin. The The viability after 3 minutes was 68.77 %. After 60 minutes the viability was 3.42%.

#### Chronic (Delayed)

- Repeated or prolonged exposure to corrosive materials will cause dermatitis.

### Eye

#### Acute (Immediate)

- Causes serious eye damage.

#### Chronic (Delayed)

- Repeated or prolonged exposure to corrosive materials or fumes may cause conjunctivitis.

### Ingestion

#### Acute (Immediate)

- May cause irreversible damage to mucous membranes. The oral LD50 of No.2 EJC, Electrical Joint Compound in rats was found to be above 2000 mg/kg. The study was accomplished on two groups each consisting of three female animals. A starting dose level of 2000 mg/kg and a dose volume of 10 ml/kg were given to the two groups. All animals survived the administration of the dosing level of 2000 mg/kg and showed slight signs of toxicosis in form of piloerection during the first hours after the application.

#### Chronic (Delayed)

- Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal disturbances.

#### Key to abbreviations

LC = Lethal Concentration

TC = Toxic Concentration

## Section 12 - Ecological Information

### 12.1 Toxicity

- Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. This material was tested for its aquatic toxicity. The EC50 of the water accommodated fraction (WAF) corresponds to 28.3 mg/l of test item. Based on the measured concentrations tested, an EC50 of 0.49 mg/l is calculated. At WAF from 20 mg/l no effect was observed (NOEC). The NOEC based on the measured concentration corresponds to 0.33 mg/l.

### 12.2 Persistence and degradability

- Material data lacking.

### 12.3 Bioaccumulative potential

- Material data lacking.

### 12.4 Mobility in Soil

- Material data lacking.

### 12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

### 12.6 Other adverse effects

- No studies have been found.

## Section 13 - Disposal Considerations

### 13.1 Waste treatment methods

**Product waste** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Packaging waste** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN3260	Corrosive Solid, Acidic, Inorganic, N.O.S. (Hydrogen Fluoride <5%)	8	III	NDA
TDG	UN3260	CORROSIVE, SOLID, ACIDIC, N.O.S. (Hydrogen Fluoride <5%)	8	III	NDA
IMO/IMDG	UN3260	CORROSIVE, SOLID, ACIDIC, N.O.S. (Hydrogen Fluoride <5%)	8	III	NDA
IATA/ICAO	UN3260	Corrosive Solid, Acidic, Inorganic, N.O.S. (Hydrogen Fluoride <5%)	8	III	NDA

### 14.6 Special precautions for user

- None specified.

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

## Section 15 - Regulatory Information

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

**SARA Hazard Classifications**

• Acute

State Right To Know						
Component	CAS	MA		NJ		PA
Hydrofluoric acid	7664-39-3	Yes		Yes		Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Hydrofluoric acid	7664-39-3	Yes	No	Yes	No	Yes

**Bulgaria**

**Environment**

**Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 24 Hour**

•Hydrofluoric acid 7664-39-3 0.005 mg/m3 MAHCL (listed under Fluoro gaseous compounds)

**Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 30 Minute**

•Hydrofluoric acid 7664-39-3 0.02 mg/m3 MAHCL (listed under Fluor gaseous compounds)

**Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - Annual**

•Hydrofluoric acid 7664-39-3 Not Listed

**Canada**

**Labor**

**Canada - WHMIS - Classifications of Substances**

•Hydrofluoric acid 7664-39-3 D1A, D2A, E; D1B, D2A, E (40%, 50%, 70%, listed under Hydrofluoric acid)

**Canada - WHMIS - Ingredient Disclosure List**

•Hydrofluoric acid 7664-39-3 1 %

**Environment**

**Canada - 2004 NPRI (National Pollutant Release Inventory)**

•Hydrofluoric acid 7664-39-3 Part 1, Group 1 Substance

**Canada - 2005 NPRI (National Pollutant Release Inventory)**

•Hydrofluoric acid 7664-39-3 Part 1, Group 1 Substance

**Canada - CEPA - Greenhouse Gases Subject to Mandatory Reporting**

•Hydrofluoric acid 7664-39-3 Not Listed

**Canada - CEPA - Priority Substances List**

•Hydrofluoric acid 7664-39-3 Not Listed

**Canada - DWQ (Drinking Water Quality) - IMACs**

•Hydrofluoric acid 7664-39-3 Not Listed

**Other**

**Canada - Accelerated Reduction/Elimination of Toxics (ARET)**

•Hydrofluoric acid 7664-39-3 Not Listed

**Canada New Brunswick**

**Environment**

**Canada - New Brunswick - Ozone Depleting Substances - Schedule A**

•Hydrofluoric acid 7664-39-3 Not Listed

**Canada - New Brunswick - Ozone Depleting Substances - Schedule B**

•Hydrofluoric acid 7664-39-3 Not Listed

**Denmark**

**Environment**

**Denmark - Advisory List for Self-Classification of Dangerous Substances**

•Hydrofluoric acid 7664-39-3 Not Listed

**Denmark - List of Undesirable Substances - Product Groups/Function**

•Hydrofluoric acid 7664-39-3 Not Listed

**Denmark - List of Undesirable Substances - Reason for Selection**

•Hydrofluoric acid 7664-39-3 Not Listed

## Europe

### Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification		
•Hydrofluoric acid	7664-39-3	T+; R26/27/28 C; R35
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits		
•Hydrofluoric acid	7664-39-3	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling		
•Hydrofluoric acid	7664-39-3	T+ C R:26/27/28-35 S:(1/2)-7/9-26-36/37/39-45
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations		
•Hydrofluoric acid	7664-39-3	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases		
•Hydrofluoric acid	7664-39-3	S:(1/2)-7/9-26-36/37/39-45

## Germany

### Environment

Germany - Water Classification (VwVwS) - Annex 1		
•Hydrofluoric acid	7664-39-3	Not Listed
Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes		
•Hydrofluoric acid	7664-39-3	Not Listed
Germany - Water Classification (VwVwS) - Annex 3		
•Hydrofluoric acid	7664-39-3	ID Number 254, hazard class 2 - hazard to waters

## United States

### Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals		
•Hydrofluoric acid	7664-39-3	1000 lb TQ; 1000 lb TQ (anhydrous)
U.S. - OSHA - Specifically Regulated Chemicals		
•Hydrofluoric acid	7664-39-3	Not Listed

### Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
•Hydrofluoric acid	7664-39-3	
U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities		
•Hydrofluoric acid	7664-39-3	100 lb final RQ; 45.4 kg final RQ
U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities		
•Hydrofluoric acid	7664-39-3	Not Listed
U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs		
•Hydrofluoric acid	7664-39-3	100 lb EPCRA RQ
U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
•Hydrofluoric acid	7664-39-3	100 lb TPQ
U.S. - CERCLA/SARA - Section 313 - Emission Reporting		
•Hydrofluoric acid	7664-39-3	1.0 % de minimis concentration
U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing		
•Hydrofluoric acid	7664-39-3	Not Listed
U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261		
•Hydrofluoric acid	7664-39-3	waste number U134
U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics		
•Hydrofluoric acid	7664-39-3	waste number U134 (Corrosive waste, Toxic waste)

## United States - California

### Environment

U.S. - California - Proposition 65 - Carcinogens List		
•Hydrofluoric acid	7664-39-3	Not Listed
U.S. - California - Proposition 65 - Developmental Toxicity		
•Hydrofluoric acid	7664-39-3	Not Listed
U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		

•Hydrofluoric acid	7664-39-3	Not Listed
<b>U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)</b>		
•Hydrofluoric acid	7664-39-3	Not Listed
<b>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</b>		
•Hydrofluoric acid	7664-39-3	Not Listed
<b>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</b>		
•Hydrofluoric acid	7664-39-3	Not Listed

## United States - Pennsylvania

### Labor

<b>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</b>		
•Hydrofluoric acid	7664-39-3	
<b>U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances</b>		
•Hydrofluoric acid	7664-39-3	Not Listed

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## Section 16 - Other Information

### Relevant Phrases (code & full text)

- H300 - Fatal if swallowed
- H330 - Fatal if inhaled
- R26/27/28 - Very toxic by inhalation, in contact with skin and if swallowed.

### Last Revision Date

- 04/December/2014

### Preparation Date

- 20/August/2012

### Key to abbreviations

NDA = No data available

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