

Safety Data Sheet



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

1.1 Product identifier

Product Name | Deep Clean S100
Product Code | 70376

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

Relevant identified use(s) | Various

1.3 Details of the supplier of the safety data sheet

Manufacturer | Air Liquide
 2700 Post Oak Blvd.
 Houston, TX 77056
 United States
 www.us.airliquide.com
 sds@airliquide.com
Telephone (Technical) | 713-896-2896
Telephone (Technical) | 800-819-1704

1.4 Emergency telephone number

Manufacturer | 800-424-9300 - CHEMTREC
Manufacturer | +1 703-527-3887 - Outside United States

Section 2: Hazards Identification

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 Oral 4 - H302
 Skin Corrosion 1B - H314
DSD/DPD | Toxic (T)
 Harmful (Xn)
 R22, R34

2.2 Label Elements

CLP

DANGER



Hazard statements | H302 - Harmful if swallowed
 H314 - Causes severe skin burns and eye damage.

Precautionary statements

- Prevention** | P260 - Do not breathe mist/vapours/spray.
 P264 - Wash thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
 P280 - Wear protective gloves/protective clothing/eye protection/face 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.
 P310 - Immediately call a POISON CENTER or doctor/physician.
 P321 - Specific treatment, see supplemental first aid information.
 P363 - Wash contaminated clothing before reuse.
 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.
 P301+P312 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.

- Storage/Disposal** | P405 - Store locked up.
 P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD



- Risk phrases** | R22 - Harmful if swallowed.
 R34 - Causes burns.
- Safety phrases** | 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.

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

- OSHA HCS 2012** | Acute Toxicity Oral 4 - H302
 Skin Corrosion 1B - H314
 Serious Eye Damage 1 - H318

2.2 Label elements

OSHA HCS 2012

DANGER



- Hazard statements** | Harmful if swallowed - H302
 Causes severe skin burns and eye damage. - H314
 Causes serious eye damage - H318

Precautionary statements

- Prevention** | Do not breathe mist/vapours/spray. - P260
 Wash thoroughly after handling. - P264
 Do not eat, drink or smoke when using this product. - P270
 Wear protective gloves/protective clothing/eye protection/face 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
 Specific treatment, see supplemental first aid information. - P321
 Wash contaminated clothing before reuse. - P363
 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
 Immediately call a POISON CENTER or doctor/physician. - P310
- Storage/Disposal** | Store locked up. - P405
 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** | Corrosive - E

2.2 Label elements

WHMIS

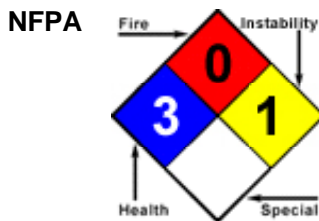


- | Corrosive - E

2.3 Other hazards

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

2.4 Other information



Section 3 - Composition/Information on Ingredients

3.1 Substances

- | Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

Composition			
Chemical Name	Identifiers	%	Classifications According to Regulation/Directive
Water and other non-hazardous components	NDA	> 75%	EU DSD/DPD: Not Hazardous EU CLP: Not Hazardous OSHA HCS 2012: Not Hazardous
Ammonium hydrogen fluoride	CAS:1341-49-7 EC Number:215-676-4 EU Index:009-009-00-4	< 16%	EU DSD/DPD: Annex I: T; R25 C; R34 EU CLP: Annex VI: Acute Tox. 3, H301; Skin Corr. 1B, H314 OSHA HCS 2012: Skin Corr. 1; Eye Dam. 1; Acute Tox. 3 (Oral)

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. Get medical attention immediately.

Skin

- For minor skin contact, avoid spreading material on unaffected skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Get medical attention immediately.

Eye

- Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Get medical attention immediately.

Ingestion

- If swallowed, rinse mouth with water (only if the person is conscious) Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Give plenty of water to drink. 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.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media

- LARGE FIRES: Dry chemical, CO₂, alcohol-resistant foam or water spray.
SMALL FIRES: Dry chemical, CO₂ or water spray.

Unsuitable Extinguishing Media

- No data available

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- Containers may explode when heated.
Acid reacts with most metals to release hydrogen gas, which can form explosive mixtures with air.

Hazardous Combustion Products

- Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive fumes.

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.
Runoff from fire control may cause pollution.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

- | Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

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

- | Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Dike to collect large liquid spills.
A vapor suppressing foam may be used to reduce vapors.
Use water spray to reduce vapors or divert vapor cloud drift.
Neutralize residue with neutralizing agent appropriate for acidic materials. Test area with litmus paper to ensure neutralization is complete.

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

- | Handle and open container with care. Use only with adequate ventilation. Use caution when combining with water; DO NOT add water to corrosive liquid, ALWAYS add corrosive liquid to water while stirring to prevent release of heat, steam and fumes. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist, vapours, spray. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- | Keep container tightly closed. Store in a cool, dry, well-ventilated place. Keep away from incompatible materials. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged.

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 | Currently there are no applicable exposure limits established for this material.

8.2 Exposure controls

Engineering Measures/Controls | Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

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 chemical splash safety goggles.

Skin/Body | Wear appropriate gloves.

Environmental Exposure Controls | Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Slightly blue, corrosive liquid with an ammonia odor.
Color	Blue	Odor	Ammonia
Odor Threshold	Data lacking		
General Properties			
Boiling Point	98 C(208.4 F)	Melting Point	Data lacking
Decomposition Temperature	Data lacking	pH	3
Specific Gravity/Relative Density	1.06 Water=1	Water Solubility	Soluble
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	> 1 Air=1
Evaporation Rate	< 1 n-Butyl Acetate = 1		
Flammability			
Flash Point	Data lacking	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

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

| Excess heat.

10.5 Incompatible materials

| Strong oxidizers, bases and acids. This product can react with silicon containing materials like glass or ceramics at room temperature (formation of SiF4).

10.6 Hazardous decomposition products

| Combustion: Hydrogen fluoride, ammonia, and nitrogen oxides. Hydrolysis: Hydrofluoric acid.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

GHS Properties	Classification
Acute toxicity	EU/CLP • Acute Toxicity - Oral 4 - ATEmix(oral)=812.5 mg/kg OSHA HCS 2012 • Acute Toxicity - Oral 4 - ATEmix(oral)=812.5 mg/kg
Aspiration Hazard	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	EU/CLP • Skin Corrosion 1B OSHA HCS 2012 • Skin Corrosion 1B
Skin sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-RE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-SE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	EU/CLP • Classification criteria not met OSHA HCS 2012 • Serious Eye Damage 1

Potential Health Effects

Inhalation

Acute (Immediate) | May cause corrosive burns - irreversible damage.

Chronic (Delayed) | Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.

Skin

- Acute (Immediate)** | Causes severe skin burns and eye damage.
- 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)** | Harmful if swallowed. May cause irreversible damage to mucous membranes.
- Chronic (Delayed)** | Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal disturbances.

Section 12 - Ecological Information

12.1 Toxicity

| Material data lacking.

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	UN3266	Corrosive Liquid, basic, inorganic, nos (Ammonium Bifluoride)	8	II	NDA
TDG	UN3266	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Ammonium Bifluoride)	8	II	NDA

IMO/MDG	UN3266	CORROSIVE LIQUID,BASIC, INORGANIC, N.O.S. (Ammonium Bifluoride)	8	II	NDA
IATA/ICAO	UN3266	Corrosive Liquid, basic, inorganic, nos (Ammonium Bifluoride)	8	II	NDA

14.6 Special precautions for user | None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not relevant.

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
Ammonium hydrogen fluoride	1341-49-7	Yes	Yes	Yes

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Ammonium hydrogen fluoride	1341-49-7	Yes	No	Yes	Yes	No

Inventory (Con't.)		
Component	CAS	TSCA
Ammonium hydrogen fluoride	1341-49-7	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Ammonium hydrogen fluoride	1341-49-7	E
Canada - WHMIS - Ingredient Disclosure List		
• Ammonium hydrogen fluoride	1341-49-7	Not Listed

Environment

Canada - CEPA - Priority Substances List

• Ammonium hydrogen fluoride	1341-49-7	Not Listed
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China

Environment

China - Ozone Depleting Substances - First Schedule

• Ammonium hydrogen fluoride	1341-49-7	Not Listed
China - Ozone Depleting Substances - Second Schedule		
• Ammonium hydrogen fluoride	1341-49-7	Not Listed

China - Ozone Depleting Substances - Third Schedule

• Ammonium hydrogen fluoride	1341-49-7	Not Listed
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Other**China - Annex I & II - Controlled Chemicals Lists**

• Ammonium hydrogen fluoride	1341-49-7	Not Listed
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China - Dangerous Goods List

• Ammonium hydrogen fluoride	1341-49-7	(solid or solution)
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China - Export Control List - Part I Chemicals

• Ammonium hydrogen fluoride	1341-49-7	
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Europe**Other****EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification**

• Ammonium hydrogen fluoride	1341-49-7	T; R25 C; R34
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EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

• Ammonium hydrogen fluoride	1341-49-7	10%≤C: T; R:25 1% ≤C<10%: Xn; R:22 1%≤C: C; R:34 0.1%≤C<1%: Xi; R:36/38
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EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

• Ammonium hydrogen fluoride	1341-49-7	T C R:25-34 S:(1/2)-22-26-37-45
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EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

• Ammonium hydrogen fluoride	1341-49-7	Not Listed
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EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

• Ammonium hydrogen fluoride	1341-49-7	S:(1/2)-22-26-37-45
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Germany**Environment****Germany - TA Luft - Types and Classes**

• Ammonium hydrogen fluoride	1341-49-7	Not Listed
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Germany - Water Classification (VwVwS) - Annex 1

• Ammonium hydrogen fluoride	1341-49-7	Not Listed
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Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• Ammonium hydrogen fluoride	1341-49-7	ID Number 292, hazard class 1 - low hazard to waters
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Germany - Water Classification (VwVwS) - Annex 3

• Ammonium hydrogen fluoride	1341-49-7	Not Listed
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Other**Germany - Specifically Regulated Chemicals in TRGS**

• Ammonium hydrogen fluoride	1341-49-7	Not Listed
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Portugal

Other

Portugal - Prohibited Substances

• Ammonium hydrogen fluoride	1341-49-7	Not Listed
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United Kingdom

Environment

United Kingdom - Pollution Inventory - Schedule 1 - Thresholds for Releases to Air

• Ammonium hydrogen fluoride	1341-49-7	Not Listed
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Other

United Kingdom - Workplace Exposure Limits (WELs) - Substances in Review

• Ammonium hydrogen fluoride	1341-49-7	Not Listed
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United Kingdom - List of Dangerous Substances in Water

• Ammonium hydrogen fluoride	1341-49-7	Not Listed
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United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Ammonium hydrogen fluoride	1341-49-7	Not Listed
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U.S. - OSHA - Specifically Regulated Chemicals

• Ammonium hydrogen fluoride	1341-49-7	Not Listed
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Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Ammonium hydrogen fluoride	1341-49-7	Not Listed
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U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Ammonium hydrogen fluoride	1341-49-7	100 lb final RQ; 45.4 kg final RQ
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U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Ammonium hydrogen fluoride	1341-49-7	Not Listed
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U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Ammonium hydrogen fluoride	1341-49-7	Not Listed
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U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Ammonium hydrogen fluoride	1341-49-7	Not Listed
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U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Ammonium hydrogen fluoride	1341-49-7	Not Listed
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U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Ammonium hydrogen fluoride	1341-49-7	Not Listed
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U.S. - EPA - Designated Generic Categories - Aqueous Ammonia

• Ammonium hydrogen fluoride	1341-49-7	NH3 Equiv. Wt. % = 29.86
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United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List		
• Ammonium hydrogen fluoride	1341-49-7	Not Listed
U.S. - California - Proposition 65 - Developmental Toxicity		
• Ammonium hydrogen fluoride	1341-49-7	Not Listed
U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
• Ammonium hydrogen fluoride	1341-49-7	Not Listed
U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)		
• Ammonium hydrogen fluoride	1341-49-7	Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Female		
• Ammonium hydrogen fluoride	1341-49-7	Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Male		
• Ammonium hydrogen fluoride	1341-49-7	Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List		
• Ammonium hydrogen fluoride	1341-49-7	
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances		
• Ammonium hydrogen fluoride	1341-49-7	Not Listed

15.2 Chemical Safety Assessment

| No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Relevant Phrases (code & full text)

| H301 - Toxic if swallowed
 | R25 - Toxic if swallowed.

Last Revision Date | 23/December/2014

Preparation Date | 23/December/2014

Disclaimer/Statement of Liability | To the best of Air Liquide's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either express or implied, are provided. The information contained herein relates only to this specific product. If this gas mixture is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

Key to abbreviations
 NDA = No data available