

**MATERIAL SAFETY DATA SHEET**

<b>Product Name</b>	<b>AMMONIUM BIFLUORIDE EXTRA PURE (Ammonium Hydrogen Difluoride)</b>
---------------------	--

**1. Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Trade name : AMMONIUM BIFLUORIDE LR

Product code : A0189

Identification of the product: AMMONIUM BIFLUORIDE LR

CAS No : 1341-49-7

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

againstUse: Industrial. For professional use only.

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

Company identification: CYNOR

National industry, Pipodra GIDC, Surat-394110, Gujarat, India.

Email: cynorlaboratories@gmail.com Mobile No.: +91 8799070507

**2. Hazards identification -DSD**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity, Oral (Category 3), H301

Skin corrosion (Category 1B), H314

For the full text of the H-Statements mentioned in this Section, see Section 16.

**2.2 Label element**

Labelling according to Regulation (EC) No. 1272/2008

Symbol(s) : T : Toxic

C : Corrosive



**R Phrase(s) :** R25: Toxic if swallowed.R34 : Cause burns.

**S Phrase(s) :** S22: Do not breath dust.

S26 : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advise.

S37 : Wear suitable gloves.

S45 : In case of accident or if you feel unwell, seek medical advice immediately (showthe label where possible).

**Labelling Regulation (EC) No 1272/2008Hazard pictograms**



**Signal word :** Danger

**Address: National industry, Pipodra GIDC, Surat-394110, Gujarat, India.**

**Email: cynorlaboratories@gmail.com Mobile No.: +91 8799070507**

**Hazard statement(s):**

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

SIGALD - 224820 Page 2 of 7

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

P301 + P330 + P331 + P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Supplemental Hazard Statements none

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**3. Composition/information on ingredients**

**Substance / Preparation:** AMMONIUM BIFLUORIDE LR

CAS No :1341-49-7

<b>Substance name</b>	<b>Contents</b>	<b>CAS No</b>
<b>Ammonium bifluoride</b>	100 %	1341-49-7

Substance.

Contains no other components or impurities which will influence the classification of the product.

**4. First aid measures**

**4.1 Description of first aid measures**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

**In case of skin contact**

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

**5. Fire-fighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Nitrogen oxides (NO<sub>x</sub>), Hydrogen fluoride

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

No data available

**6. Accidental release measures**

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

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For disposal see section 13.

**7. Handling and storage**

**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

hygroscopic Store under inert gas. Storage class (TRGS 510): Non-combustible, acutetoxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**8. Exposure controls/personal protection**

**8.1 Control parameter**

No additional information available

**8.2 Exposure control**

**Appropriate engineering controls**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after

handling the product.

**Personal protective equipment**

**Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If the full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**9. Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Odour Threshold** : No data available

**pH** : No data available

**Melting point/freezing point**: 125 °C - lit.

**Initial boiling point and boiling range** : No data available

**Flash point** : Not applicable

**Evaporation rate**: No data available

**Flammability (solid, gas)**: No data available

**Upper/lower flammability or explosive limits** : No data available

**Vapour pressure**: No data available

**Vapour density**: No data available

**Relative density**: 1.500 g/cm<sup>3</sup>

**Water solubility** : No data available

**Partition coefficient: octanol/ water** : No data available

**Auto-ignition temperature** : No data available

**Decomposition temperature** : No data available

**Viscosity** : No data available

**Explosive properties**: No data available

**Oxidizing properties** : No data available



CYNOR LABORATORY

Address: National industry, Pipodra GIDC, Surat-394110, Gujarat, India.

Email: cynorlaboratories@gmail.com Mobile No.: +91 8799070507

## 9.2 Other information

No additional information available

## 10. Stability and reactivity

### 10.1 Reactivity

No additional information available

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

No additional information available

### 10.4 Conditions to avoid

Avoid moisture

### 10.5 Incompatible materials

Strong oxidizing agent

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Nitrogen oxides(NOx), Hydrogen fluoride

Other decomposition products - No data available In the event of fire: see section 5

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

No data available Ammonium bifluoride

#### Skin corrosion/irritation

No data available (Ammonium bifluoride)

#### Serious eye damage/eye irritation

No data available (Ammonium bifluoride)

#### Respiratory or skin sensitisation

No data available (Ammonium bifluoride)

#### Germ cell mutagenicity

No data available (Ammonium bifluoride)

#### Carcinogenicity

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Ammonium bifluoride)

#### Reproductive toxicity

No data available (Ammonium bifluoride) **Specific**

**target organ toxicity - single exposure** No data

available (Ammonium bifluoride)

**Specific target organ toxicity - repeated exposure**

No data available

#### Aspiration hazard

No data available (Ammonium bifluoride)

#### Additional Information

RTECS: BQ9200000



CYNOR LABORATORY

Address: National industry, Pipodra GIDC, Surat-394110, Gujarat, India.

Email: cynorlaboratories@gmail.com Mobile No.: +91 8799070507

Material is extremely destructive to tissue of the mucous membranes and upperrespiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea(Ammonium bifluoride)

## **12. Ecological information**

### **12.1 Toxicity**

No additional information available

### **12.2 Persistence – degradability**

No additional information available

### **12.3 Bioaccumulative potential**

No additional information available

### **12.4 Mobility in soil**

No additional information available

### **12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **12.6 Other adverse effects**

No additional information available

## **13. Disposal considerations**

### **13.1 Waste treatment methods**

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

#### **Contaminated packaging**

Dispose of as unused product

## **14. Transport information**

### **14.1 UN number**

ADR/RID: 1727 IMDG: 1727 IATA: 1727

### **14.2 UN proper shipping name**

ADR/RID: AMMONIUM HYDROGENDIFLUORIDE, SOLID

IMDG: AMMONIUM HYDROGENDIFLUORIDE, SOLID

IATA: Ammonium hydrogendifluoride, solid

### **14.3 Transport hazard class(es)**

ADR/RID: 8 IMDG: 8 IATA: 8

### **14.4 Packaging group**

ADR/RID: II IMDG: II IATA: II

### **14.5 Environmental hazards**

ADR/RID: no IMDG Marine pollutant: no IATA: no

### **14.6 Special precautions for user**

No data available

## **15. Regulatory information**

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.



CYNOR LABORATORY

Address: National industry, Pipodra GIDC, Surat-394110, Gujarat, India.

Email: cynorlaboratories@gmail.com Mobile No.: +91 8799070507

## 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

## 16. Other information

**Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative

**Sources of key data used** : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**Further information** : None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008 **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness.

The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge.

For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

### End of document

**Prepared by:** CYNOR

**For questions contact:** CYNOR

**Office:** CYNOR

National industry, Pipodra GIDC, Surat-394110, Gujarat, India.

**Email:** cynorlaboratories@gmail.com **Mobile No.:** +91 8799070507

(The statements contained herein are offered for informational purposes only and are based upon technical data that CYNOR believes to be accurate. It is intended for use only by persons having the necessary technical skills and at their own discretion and risk. Since conditions and manner of use are outside our control, we make **NO WARRANTY, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE.**)