



# SAFETY DATA SHEET

Revision Date 19-Apr-2012

Revision Number 3

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product Identifier

**Product Description:** Ammonium hexafluoroaluminate  
**Cat No.** 383320000; 383320500; 383322500

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

**Recommended Use** Laboratory chemicals  
**Uses advised against** No Information available

### Details of the supplier of the safety data sheet

#### Company

Acros Organics BVBA  
Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium

**E-mail address** [begele.sdsdesk@thermofisher.com](mailto:begele.sdsdesk@thermofisher.com)

### Emergency Telephone Number

For information in the US, call: 001-800-ACROS-01  
For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99  
Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300  
CHEMTREC Phone Number, Europe: 001-703-527-3887

## SECTION 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture REGULATION (EC) No 1272/2008

Acute oral toxicity	Category 3
Acute dermal toxicity	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 2

### Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

**Symbol(s)** T - Toxic  
**R-phrases(s)** none  
**Risk Combination Phrases** R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

Ammonium hexafluoroaluminate

Revision Date 19-Apr-2012

**SECTION 2. HAZARDS IDENTIFICATION**

Label Elements



Signal Word

**Danger**

Hazard Statements

H311 - Toxic in contact with skin  
H330 - Fatal if inhaled  
H301 - Toxic if swallowed

Precautionary Statements - EU (§28, 1272/2008)

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician  
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection  
P312 - Call a POISON CENTER or doctor/ physician if you feel unwell  
P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water  
P310 - Immediately call a POISON CENTER or doctor/ physician  
P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

Other Hazards

No information available.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	EC-No.	Weight %	CAS-No	67/548/EEC Classification	CLP Classification - Regulation (EC) No 1272/2008	REACH No.
Aluminate(3-), hexafluoro-, triammonium, (OC-6-11)- 7784-19-2	EEC No. 232-052-7	100	7784-19-2	T; R23/24/25	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331)	-

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

**SECTION 4. FIRST AID MEASURES**

Ammonium hexafluoroaluminate

Revision Date 19-Apr-2012

**SECTION 4. FIRST AID MEASURES****Description of first aid measures****Eye Contact**

Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**Skin Contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.

**Ingestion**

Call a physician immediately. Clean mouth with water.

**Inhalation**

Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediate medical attention is required.

**Notes to Physician**

Treat symptomatically

**SECTION 5. FIRE-FIGHTING MEASURES****Extinguishing media****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Extinguishing media which must not be used for safety reasons**

No information available.

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

Non-combustible.

**Advice for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**SECTION 6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

**Environmental precautions**

Prevent further leakage or spillage if safe to do so

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

Avoid dust formation. Wear self-contained breathing apparatus and protective suit. Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let this chemical enter the environment.

**SECTION 7. HANDLING AND STORAGE**



**Ammonium hexafluoroaluminate**

**Revision Date 19-Apr-2012**

**SECTION 7. HANDLING AND STORAGE**

**Precautions for Safe Handling**

Do not breathe dust. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Do not ingest. Use only in area provided with appropriate exhaust ventilation.

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

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

**Specific End Uses**

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Biological limit values**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL)**

No information available.

**Predicted No Effect Concentration (PNEC)**

No information available.

**Exposure controls**

**Engineering Measures**

Ensure adequate ventilation, especially in confined areas

**Personal protective equipment**

**Eye Protection**

Goggles

**Hand Protection**

Protective gloves

**Skin and body protection**

Wear appropriate protective gloves and clothing to prevent skin exposure

**Respiratory Protection**

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 if irritation or other symptoms are experienced

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls**

No information available.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State**

Powder, Solid

**Appearance**

White

**odor**

odorless

**pH**

No information available.

**Vapor Pressure**

No information available.

**Vapor Density**

No information available.

**Boiling Point/Range**

No information available.

**Melting Point/Range**

No information available.

**Flash Point**

No information available.

Ammonium hexafluoroaluminate

Revision Date 19-Apr-2012

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Autoignition Temperature	No information available.
Water Solubility	soluble
Molecular Formula	H12 Al F6 N3
Molecular Weight	195.09

**SECTION 10. STABILITY AND REACTIVITY****Reactivity****Chemical Stability**

Stable under normal conditions. Hygroscopic.

**Possibility of Hazardous Reactions**

Hazardous Polymerization	No information available.
Hazardous Reactions .	No information available.

**Conditions to Avoid**

Avoid dust formation, Incompatible products, Exposure to moist air or water.

**Incompatible Materials**

Strong oxidizing agents.

**Hazardous Decomposition Products**

Nitrogen oxides (NO<sub>x</sub>). Gaseous hydrogen fluoride (HF).

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on Toxicological Effects****Acute Toxicity**

**Product Information** No acute toxicity information is available for this product

**Component Information****Chronic Toxicity**

**Carcinogenicity** There are no known carcinogenic chemicals in this product

<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available
<b>Reproductive Effects</b>	No information available.



**Ammonium hexafluoroaluminate**

**Revision Date** 19-Apr-2012

**SECTION 11. TOXICOLOGICAL INFORMATION**

<b>Developmental Effects</b>	No information available.
<b>Target Organs</b>	No information available.
<b>Other Adverse Effects</b>	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information
<b>Endocrine Disruptor Information</b>	None known

**SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity**

**Ecotoxicity effects** Do not empty into drains

**Persistence and degradability**

No information available

**Bioaccumulative potential**

No information available.

**Mobility in soil**

No information available.

**Results of PBT and vPvB assessment**

**Other adverse effects**

No information available

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Waste from Residues / Unused Products** Dispose of in accordance with local regulations

**Contaminated Packaging** Empty containers should be taken to local recyclers for disposal

**SECTION 14. TRANSPORT INFORMATION**

**IMDG/IMO**

<b>UN-No</b>	3288
<b>Hazard Class</b>	6.1
<b>Packing Group</b>	III
<b>Proper Shipping Name</b>	TOXIC SOLID, INORGANIC, N.O.S.

Ammonium hexafluoroaluminate

Revision Date 19-Apr-2012

**SECTION 14. TRANSPORT INFORMATION**
**ADR**

**UN-No** 3288  
**Hazard Class** 6.1  
**Packing Group** III  
**Proper Shipping Name** TOXIC SOLID, INORGANIC, N.O.S.

**IATA**

**UN-No** 3288  
**Hazard Class** 6.1  
**Packing Group** III  
**Proper Shipping Name** TOXIC SOLID, INORGANIC, N.O.S.\*

**SECTION 15. REGULATORY INFORMATION**
**Safety, health and environmental regulations/legislation specific for the substance or mixture**
**International Inventories**

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Aluminate(3-), hexafluoro-, triammonium, (OC-6-11)-	232-052-7	-		X	-	X	-	-	-	-	X

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**CHINA** - China Inventory of Existing Chemical Substances

**AICS** - Inventory of Chemical Substances

**KECL** - Existing and Evaluated Chemical Substances

**Chemical Safety Assessment**
**SECTION 16. OTHER INFORMATION**
**Full text of R-phrases referred to under sections 2 and 3**



**Ammonium hexafluoroaluminate**

**Revision Date** 19-Apr-2012

**SECTION 16. OTHER INFORMATION**

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

**Revision Date** 19-Apr-2012

**Revision Summary**

**Reason for revision** Not applicable

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

**Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**