

### CAS-No.: 15098-87-0 MSDS

### MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier	
Product form	: Substance
	:
CAS-No.	: 15098-87-0
Product code	: 00900
Chemical structure	AIF <sub>3</sub> • 3H <sub>2</sub> O

.2.	Relevant identified uses of t	he substance or mixture and uses advised against
.2.1.	Relevant identified uses	
Jse of th	he substance/mixture	: Laboratory chemicals, Manufacture of substances
.2.2.	Uses advised against	
lo addit	tional information available	

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#### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

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

Acute toxicity (oral),H302Category 4Skin corrosion/irritation,H315Category 2Serious eye damage/eyeH319irritation, Category 2Specific target organH335toxicity — Singleexposure, Category 3,Respiratory tract irritation

Full text of hazard classes and H-statements : see section 16

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R36 Xi; R37 Xi; R38

Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Regulation (EC	) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	: GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	<ul> <li>H302 - Harmful if swallowed.</li> <li>H315 - Causes skin irritation.</li> <li>H319 - Causes serious eye irritation.</li> <li>H335 - May cause respiratory irritation.</li> </ul>
Precautionary statements (CLP)	: P261 - Avoid breathing vapours, dust, fume, gas. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 2.3. Other hazards

No additional information available

SECTI	ON 3: Composition/information or	ingradianta
SECTI	on 5. composition/information of	i ingredients
3.1.	Substances	
Name		: ALUMINIUM FLUORIDE TRIHYDRATE EXTRA PURE
CAS-N	0.	: 15098-87-0
Full tex	t of R- and H-statements: see section	n 16
3.2.	Mixtures	
Not ap	plicable	
SECTI	ON 4: First aid measures	
4.1.	Description of first aid measure	S
First-ai	d measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) wit	
First-aid measures after skin contact	: Wash with plenty of water/ Wash contaminated clothing before reuse. Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Get medical advice/attention.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Harmful if swallowed.
4.3. Indication of any immediate med	ical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: Do not use extinguishing media containing water.
Chould be oxing a ching mode	
5.2. Special hazards arising from the	substance or mixture
No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measures	
6.1. Personal precautions, protective	equipment and emergency procedures
	equipment and emergency procedures
6.1.1. For non-emergency personnel	
	equipment and emergency procedures : Evacuate unnecessary personnel.
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<ul><li>6.1.1. For non-emergency personnel Emergency procedures</li><li>6.1.2. For emergency responders</li></ul>	: Evacuate unnecessary personnel.
<ul> <li>6.1.1. For non-emergency personnel Emergency procedures</li> <li>6.1.2. For emergency responders Protective equipment</li> </ul>	<ul><li>Evacuate unnecessary personnel.</li><li>Use personal protective equipment as required.</li></ul>
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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

No additional information available SECTION 8: Exposure controls/personal protection 8.1. Control parameters	7.3.	Specific end use(s)				
	No additi	onal information availat	ble			
8.1. Control parameters						
8.1. Control parameters	SECTIO	N 8: Exposure control	s/personal protec	tion		
	SECTIO	N 8: Exposure control	s/personal protec	tion		

8.2. Exposure controls	
Hand protection	: Protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.
SECTION 9: Physical and chemical prop	perties
9.1. Information on basic physical a	
Physical state	: Solid
Colour	: White powder.
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 3.1 g/cm <sup>3</sup>
Solubility	: Water: Slightly soluble in water
Log Pow	: No data available

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2.	Other information	
No addi	tional information available	
SECTIO	N 10: Stability and reactivity	
10.1.	Reactivity	
No addi	tional information available	
10.2.	Chemical stability	
Stable u	nder normal conditions.	
10.3.	Possibility of hazardous rea	ctions
No addi	tional information available	
10.4.	Conditions to avoid	
Direct s	unlight. Air contact.	
10.5.	Incompatible materials	
No addi	tional information available	
10.6.	Hazardous decomposition p	roducts
No addi	tional information available	
SECTIC	N 11: Toxicological informati	on
11.1.	Information on toxicologica	offects
		: Oral: Harmful if swallowed.
Acute to	xicity	
Skin cor	rosion/irritation	: Causes skin irritation.
Serious eye damage/irritation		: Causes serious eye irritation.
Respiratory or skin sensitisation		: Not classified
Germ cell mutagenicity		: Not classified
Carcino	genicity	: Not classified
Reprodu	uctive toxicity	: Not classified
STOT-si	ngle exposure	: May cause respiratory irritation.

Aspiration hazard : Not classified

: Not classified

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and 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 asses	ssment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
No additional information available	
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IA	ΓΑ / ADN
14.1. UN number	
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable

14.3.	Transport hazard class(es)	
ADR		
Transpo	rt hazard class(es) (ADR)	: Not applicable
IMDG		
Transpo	rt hazard class(es) (IMDG)	: Not applicable

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

IATA Transport hazard class(es) (IATA)	: Not applicable
ADN	
Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

#### 14.6. Special precautions for user

- Overland transport No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

No data available

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

### Not applicable

### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

ALUMINIUM FLUORIDE TRIHYDRATE EXTRA PURE is not on the REACH Candidate List ALUMINIUM FLUORIDE TRIHYDRATE EXTRA PURE is not on the REACH Annex XIV List

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 15.1.2. National regulations

### Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
<b>Denmark</b> Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

### Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
R36	Irritating to eyes
R37	Irritating to respiratory system
R38	Irritating to skin
Xi	Irritant

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product