



S a f e t y D a t a S h e e t
According to Regulation (EC) 1907/2006

15A314 Aluminium Isopropylate, 98% PS

1. Identification of the substance/preparation and of the company or firm

1.1 Identification of the substance or preparation

Name:

Aluminium Isopropylate

1.2 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

1.3 Identification of the company or firm:

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2. Identification of dangers

Highly flammable.

3. Component Composition/Information

Name: Aluminium Isopropylate

Formula: $C_9H_{21}AlO_3$ M.=204,25 CAS [555-31-7]

EC number (EINECS): 209-090-8

EC index number: 603-042-00-3

4. First aid

4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Inhaling:

Take the person out into the fresh air. In the event of suffocation, proceed to provide artificial respiration. In the event sickness persists, seek medical assistance.

4.3 Contact with the skin:

Wash with plenty of soap and water. Remove contaminated clothing. In the event of irritation, seek medical assistance.

4.4 Eyes:

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. Seek immediate medical assistance.

4.5 Swallowing:

Drink large amounts of water or milk. Seek immediate medical assistance.

5. Fire-fighting means

5.1 Suitable fire-extinguishing means:

Carbon dioxide (CO₂). Foam. Dry powder.

5.2 Fire-fighting means which must NOT be used:

Water.

5.3 Special risks:

Flammable. Keep away from sources of ignition. In the event of fire, toxic fumes may form. Do not allow extinguishing water into surface or underground water courses. Keep the workplace dry. The substance must not come into contact with water. Risk of explosion of dust.

5.4 Protective equipment:

Suitable clothing and footwear. Self-contained breathing equipment.

6. Measures to be taken in the event of accidental spillage

6.1 Individual precautions:

Do not inhale the dust. Ensure adequate ventilation. Avoid sources of ignition. Do not smoke. Evacuate all non-essential personnel. Avoid contact with the skin, eyes or clothing.

6.2 Precautions for care of the environment:

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

6.3 Methods for collection/cleaning:

Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

7. Handling and storage

7.1 Handling:

Ensure good ventilation and renewal of the air in the premises. Avoid the formation of electrostatic charges. Moisture-sensitive.

7.2 Storage:

Well sealed containers. In a cool, dry, well ventilated place. Away from sources of ignition and heat. Atmospheric temperature.

8. Staff exposure/protection controls

8.1 Technical protective measures:

Ensure good ventilation and renewal of the air in the premises.

8.2 Exposure limit control:

(Al) VLA-ED: 2 mg/m³

8.3 Respiratory protection:

If dust forms, use suitable respiratory protection.

8.4 Hand protection:

Use suitable gloves

8.5 Eye protection:

Use suitable goggles.

8.6 Individual hygiene measures:

Remove contaminated clothing. Wash hands and face before breaks and when the job is done. Do not inhale the substance. Do not eat, drink or smoke in the workplace.

Avoid the formation of dust.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

The supplier of the protection equipment must specify the type of protection to be worn when handling the substance or preparation, including the type of material and the breakthrough time of the material, with regard to the amount and duration of exposure.

9. Physical and chemical properties

Appearance:

White, cristalline powder.

Odour:

Odourless.

Boiling point: 125°C/5mm

Melting point: 128-133°C

Density (20/4): 1,03

Solubility: Reacts violently in water. Soluble in chloroform and ether.

10. Stability and reactivity

10.1 Conditions which should be avoided:

10.2 Matter which should be avoided:

Strong oxidant agents. Water. Acids.

10.3 Hazardous decomposition products:

Carbon monoxide. Carbon dioxide. Al_2O_3 .

10.4 Complementary information:

Corrosive. Hygroscopic. Moisture sensitive.

11. Toxicological information

11.1 Acute toxicity:

LD₅₀ oral rat: 11300 mg/kg

11.2 Dangerous effects for health:

The product breaks down with the moisture of the tissues.

If inhaled: Irritations to the mucosae, coughing, breathing difficulties. Can cause spasms, inflammation and oedema of the larynx, bronchi and lungs. Can cause pulmonary oedema, pneumonia.

Upon contact with the skin: slight irritations.

Through contact with the eyes: slight irritations.

If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract.

Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

12. Environmental information

12.1 Mobility:

12.2 Ecotoxicity:

12.1.1 - EC₅₀ test (mg/l):

12.2.2 - Receptor medium:

Risk for the water environment = ---

Risk for the land environment = ---

12.2.3 - Observations:

Ecotoxic data not available.

12.3 Degradability:

12.3.1 - Test:-----

12.3.2 - Biotic degradation classification:

BOD₅/COD Biodegradability = -----

12.3.3 - Abiotic degradation depending on pH: -----

12.3.4 - Observations:

Data not available.

12.4 Accumulation:

12.4.1 - Test:

12.4.2 - Bioaccumulation:

Risk = -----

12.4.3 - Observations:

Data not available.

12.5 Other possible effects on the environment:

Do not allow it to enter soils or water channels. Do not allow it to enter the sewage system.

13. Considerations regarding elimination

13.1 Substance or preparation:

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country. In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes.

Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

13.2 Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

14. Information concerning transport

Overland (ADR):

Technical name: SALES METÁLICAS DE COMPUESTOS ORGÁNICOS, INFLAMABLES, N.E.P.

ONU 3181 Class: 4.1 Packaging group: II (E)

By sea (IMDG):

Technical name: SALES METÁLICAS DE COMPUESTOS ORGÁNICOS, INFLAMABLES, N.E.P.

ONU 3181 Class: 4.1 Packaging group: II

By air (ICAI-IATA):


Technical name: Sales metálicas de compuestos orgánicos, inflamables, n.e.p.

ONU 3181 Class: 4.1 Packaging group: II

Packaging instructions: CAO 417 PAX 415

15. Mandatory information

15.1 Labelling as per REACH

Symbols: 

Danger indications: Highly flammable

Phrases R: 11 Highly flammable.

Phrases S: 8-16 Keep container dry. Keep away from sources of ignition - No smoking.

EC index number: 603-042-00-3

16. Other information

Review number and date:0 07.06.09

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.