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

A822 **Lithium Aluminium Hydride *tablets in Argon atmosphere**

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

1.1 Identification of the substance or preparation
Name:
Lithium Aluminium Hydride *tablets in Argon atmosphere

1.2 Synonym:
Aluminium Lithium Hydride, LAH, Lithium tetrahydro Aluminate

1.3 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

1.4 Identification of the company or firm:

PANREAC QUIMICA S.L.U.
C/Garraf 2
Polígono Pla de la Bruguera
E-08211 Castellar del Vallès
(Barcelona) Spain
Tel. (+34) 937 489 400
e-mail: product.safety@panreac.com
Emergencies:
Single telephone number for emergency calls: 112 (EU)
Tel.: (+34) 937 489 499

Identification of dangers

Classification of the substance or the mixture.

Classification Regulation (CE) nº 1272/2008.

Water-react. 1

Skin Corr. 1A

Hazard Pictograms

Signal word

Danger

Hazard statements

H260 In contact with water releases flammable gases which may ignite spontaneously.

H314 Causes severe skin burns and eye damage.

Precautionary statements

P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire.

P231+P232 Handle under inert gas. Protect from moisture.

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

P264 Wash...thoroughly after handling.

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

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

Classification (67/548/CEE or 1999/45/CE).

C Corrosive R35

F Highly flammable R15

For the full text of the R-phrases mentioned in this section, see section 16.

Component Composition/Information

Name: Lithium Aluminium Hydride *tablets in Argon atmosphere

Formula: H4AlLi M.= 37,95 CAS [16853-85-3]

EC number (EINECS): 240-877-9

EC index number: 001-002-00-4

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 immediately to provide artificial respiration. Seek immediate medical assistance.

4.3 Contact with the skin:
Take the product out with cotton wool soaked in polyethylene-glycol 400. Wash with plenty of soap and water. Remove contaminated clothing.

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

4.5 Swallowing:
Drink large amounts of water. Drink large amounts of water. Avoid vomiting (there is a risk of perforation). Avoid vomiting (there is a risk of perforation). Seek immediate medical assistance. Seek immediate medical assistance. Do not neutralize. Do not neutralize.

Fire-fighting means

5.1 Suitable fire-extinguishing means:
Dry powder.

5.2 Fire-fighting means which must NOT be used:
Water. Carbon dioxide (CO2). Foam.

5.3 Special risks:
Flammable. Keep away from sources of ignition. In the event of fire, toxic fumes may form. Risk of explosion of dust.

5.4 Protective equipment:

Measures to be taken in the event of accidental spillage

6.1 Individual precautions:
Do not inhale the dust.

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:
Carry out the operation with maximum precaution. Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

Handling and storage

7.1 Handling:
No special indications.

7.2 Storage:
Well sealed containers.Dry atmosphere.In well ventilated premises.Atmospheric temperature.Restricted access, only authorized to technicians.Away from sources of ignition and heat.

Staff exposure/protection controls

8.1 Technical protective measures:

8.2 Exposure limit control:

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. Use suitable work clothing. Avoid the formation of dust. Wash hands and face before breaks and when the job is done.

8.7 Environmental exposure controls:
Fulfill the commitments under local environmental protection legislation.

Physical and chemical properties

Appearance: solid

Colour: White

Granulometry:

Odour: Odourless.

pH:

Melting point/freezing point: 125 °C

Initial boiling point and boiling range:

Flash point:

Flammability (solid, gas):

Upper/lower flammability or explosive limits:

Vapour pressure:
Vapour density:
Relative density: 0,92
Solubility: Reacts violently with water and ethanol. Miscible with ether, chloroform or benzene
Partition coefficient: n-octanol/water:
Auto-ignition temperature:
Decomposition temperature:
Viscosity:

Stability and reactivity

10.1 Conditions which should be avoided:
High temperatures.

10.2 Matter which should be avoided:
Water. Acids. Alkaline hydroxides. Oxidant agents.

10.3 Hazardous decomposition products:
Hydrogen.

10.4 Complementary information:

Toxicological information

- **Acute toxicity:**

- **Dangerous effects for health:**

If inhaled: Irritations to the respiratory tracts. Can cause pulmonary oedema The product breaks down with the moisture of the tissues. Upon contact with the skin: burns Through contact with the eyes: burns Risk of blindness (irreversible injury of the optic nerve) Risk of sight disorders If swallowed: nausea vomiting Irritation of the digestive apparatus Can cause Burns in the digestive apparatus Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

Environmental information

12.1 Mobility:

12.2 Ecotoxicity:

12.1.1 - EC50 test (mg/l):

Fish (Al) EC0 0,5 mg/l

Classification: Extr. toxic

Fish (Li) 100 mg/l

Classification: Highly toxic

Crustaceans (Daphnia magna) (Li) 16 mg/l

Classification: Extr. toxic

Plants (Li) 0,2 mg/l

Classification:

Extr. toxic

12.2.2 - Receptor medium:

Risk for the water environment

Medium

Risk for the land environment

Medium

12.2.3 - Observations:

Acute ecotoxicity in the dumping area.

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:

12.4 Accumulation:

12.4.1 - Test:

12.4.2 - Bioaccumulation:

Risk

12.4.3 - Observations:

12.5 Other possible effects on the environment:

Water-pollutant product.

Reacts with water.

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.
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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.
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Information concerning transport

Overland (ADR):
Technical name: LITHIUM ALUMINIUM HYDRIDE
UN 1410 Class: 4.3 Packaging group: I (E)

By sea (IMDG):
Technical name: LITHIUM ALUMINIUM HYDRIDE
UN 1410 Class: 4.3 Packaging group: I

By air (ICAI-IATA):
Technical name: Lithium aluminium hydride
UN 1410 Class: 4.3 Packaging group: I

Packaging instructions: CAO 412 PAX P

Regulatory information

Other information

Other precautionary statements

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment (see on this label).
P335+P334 Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.
P338 Remove contact lenses, if present and easy to do. Continue rinsing.
P363 Wash contaminated clothing before reuse.
P370+P378 In case of fire: Use for extinction.
P402+P404 Store in a dry place. Store in a closed container.
P405 Store locked up.

Labelling (65/548/CEE or 1999/45/CE)

R-phrase(s):	**R35** Causes severe burns. **R15** Contact with water liberates extremely flammable gases.
S-phrase(s):	**S43h** In case of fire, use sand, carbon dioxide or dry chemical powder. Never use water. **S36/37/39** Wear suitable protective clothing, gloves and eye/face protection. **S26** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. **S7/8** Keep container tightly closed and dry. **S45** In case of accident or if you feel unwell, seek medical advice immediately (show the lable where possible).

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.
In respect of the previous review, changes have been made to the following sections: 2, 3, 15
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