TECHNICAL DATA SHEET

Date of Issue: 2016/12/08

Lithium Aluminum Hydride, typ. 10 % solution in 2-Methyl-THF (typ. 2.2 M)

CAS-No. 16853-85-3

EC-No. 240-877-9

REACH No. 01-2119919039-36

Molecular Formula LiAIH4

Product Number 401632

APPLICATION Versatile reducing agent for organic chemical and phamaceutical industry.

FURTHER INGREDIENTS

2-Methyltetrahydrofuran

CAS-No. 96-47-9 EC-No. 202-507-4

SPECIFICATION

Lithium Aluminum Hydride: 9.5 - 10.5 %

METHOD OF ANALYSIS

Oxidimetric determination of active hydrogen content (Felkin's method): Oxidation by a solution of iodine, followed by back-titration of excess iodine with sodium thiosulphate solution.

PHYSICAL PROPERTIES

Appearance turbid liquid

Color gray

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation and its subsidiaries and affiliates. It is the responsibility of the user to comply with all applicable laws and regulations and to provide for a safe workplace. The user should consider any health or safety hazards or information contained herein only as a guide, and should take those precautions which are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patent.



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Flash point -10 °C (2-Methyltetrahydrofuran)

Boiling point/boiling

range

78 °C (2-Methyltetrahydrofuran)

Density 0.87 g/cm3 at 20 °C

Water solubility (Not applicable)

Molecular weight 37.95 g/mol

Additional Physical

Properties

Molarity abt. 2.2

HANDLING & STORAGE

Handling Dilute spilled solution with (continued) paraffin oil (but never with halogenated

hydrocarbons, alcohols, ketons, esters etc.) and cover with ground limestone or cement. The soaked material should then be taken to a safe place and be decomposed from a safe distance by a jet of water. Pay also attention to the official safety regulations (see: "Marking"). The safety data sheet is available on request. Please see also our brochure "Lithium Aluminum Hydride". In use may form

swallowed. Keep under argon or nitrogen. Keep container in a well ventilated place. Never add water to this product. Take precautionary measures against static discharges. In case of fire use powder based on sodium chloride or limestone

flammable/explosive vapor-air mixtures. Harmful in contact with skin and if

powder. Never use water, halons or carbon dioxide.

Storage Under exclusion of air and humidity, the solutions are fairly stable. However, even at

room temperature slight decomposition with evolution of hydrogen is observed after prolonged storage. As decomposition accelerates with temperature, we recommend not to exceed a storage temperature of 20 °C and to use the product within a period

of six months after receipt.

TRANSPORT & PACKAGING

UN number 1411

ADR	Class: 4.3	PG: I	Label: 4.3 (3)
RID	Class: 4.3	PG: I	Label: 4.3 (3)
IMDG	Class: 4.3	PG: I	Label: 4.3 (3)
IATA_C	Class: 4.3	PG: I	Packing instruction (cargo aircraft): 480
IATA_P	Class: 4.3	PG: I	

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Hazard pictograms







Signal Word Danger

H&P Phrases See Safety Data Sheet

Labelling The labelling is according to EU-GHS classification ((EG) 1272/2008) and may vary

in other countries. Please refer to the respective Safety Data Sheet for your country.

Packaging

Steel containers with the following characteristics, filled to max. 90 % according to the international transport regulations:

Nominal volume (I) filled up to (I) content of LiAlH4 (kg)

 40
 36
 3.0

 125
 112
 10.0

 450
 405
 36.0

OTHER INFORMATION

Further Related

Safety Data Sheet

Documents

Our brochure(s) Lithium Aluminum Hydride



