Thermo Fisher SCIENTIFIC

SAFETY DATA SHEET

Page 1/10 Creation Date 03-Jan-2005 Revision Date 16-May-2024 Version 6

ALFAAH37222

Diisobutylaluminum hydride, 1M solution in hexane, packaged under Nitrogen in resealable AcroSeal[t bottles

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

产品说明: 二异丁基氢化铝,1M 己烷溶液

Product Description: Diisobutylaluminum hydride, 1M solution in hexane, packaged under Nitrogen in

resealable AcroSeal[t bottles

Cat No. :H37222SynonymsDIBAL-H

Supplier Avocado Research Chemicals Ltd.

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Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

E-mail address begel.sdsdesk@thermofisher.com

Recommended Use Laboratory chemicals.
Uses advised against No Information available

SECTION 2. HAZARD IDENTIFICATION

Physical StateAppearanceOdorLiquidColorlessPetroleum distillates

Emergency Overview

Highly flammable liquid and vapor. Catches fire spontaneously if exposed to air. In contact with water releases flammable gases which may ignite spontaneously. May be fatal if swallowed and enters airways. May be harmful in contact with skin. Causes severe skin burns and eye damage. May cause drowsiness and dizziness. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Reacts violently with water. Moisture sensitive.

Classification of the substance or mixture

| Flammable liquids. | Category 2 |
|--|--------------|
| Substances/mixtures which, in contact with water, emit flammable gases | Category 1 |
| Pyrophoric liquids | Category 1 |
| Aspiration Toxicity | Category 1 |
| Acute Dermal Toxicity | Category 5 |
| Skin Corrosion/Irritation | Category 1 A |
| Serious Eye Damage/Eye Irritation | Category 1 |
| Reproductive Toxicity | Category 2 |
| Specific target organ toxicity - (single exposure) | Category 3 |
| Specific target organ toxicity - (repeated exposure) | Category 2 |
| Chronic aquatic toxicity | Category 2 |

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Label Elements



Signal Word

Danger

Hazard Statements

- H225 Highly flammable liquid and vapor
- H260 In contact with water releases flammable gases which may ignite spontaneously
- H250 Catches fire spontaneously if exposed to air
- H304 May be fatal if swallowed and enters airways
- H313 May be harmful in contact with skin
- H314 Causes severe skin burns and eye damage
- H336 May cause drowsiness or dizziness
- H361 Suspected of damaging fertility or the unborn child
- H373 May cause damage to organs through prolonged or repeated exposure
- H411 Toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention

- P201 Obtain special instructions before use
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P202 Do not handle until all safety precautions have been read and understood
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- P222 Do not allow contact with air
- P231 + P232 Handle and store contents under inert gas. Protect from moisture
- P240 Ground and bond container and receiving equipment
- P242 Use non-sparking tools
- P243 Take action to prevent static discharges
- P264 Wash face, hands and any exposed skin thoroughly after handling
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear protective gloves

Response

- P302 + P334 IF ON SKIN: Immerse in cool water or wrap in wet bandages
- P304 + P340 IF INHALED: Remove person to fresh air and keep 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
- P330 Rinse mouth
- P331 Do NOT induce vomiting
- P362 + P364 Take off contaminated clothing and wash it before reuse
- P370 + P378 In case of fire: Use limestone powder, sodium chloride or dry sand to extinguish

Storage

- P402 + P404 Store in a dry place. Store in a closed container
- P422 Store contents under inert gas

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Physical and Chemical Hazards

Highly flammable. Vapors may cause flash fire or explosion. Catches fire spontaneously if exposed to air. Reacts violently with water, liberating extremely flammable gases. Reacts violently with water.

Aspiration hazard if swallowed - can enter lungs and cause damage. May be harmful in contact with skin. Corrosive. Causes skin and eye burns. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

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Environmental hazards

Toxic to aquatic life with long lasting effects. Reacts violently with water. . The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

This product does not contain any known or suspected endocrine disruptors.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS No | Weight % |
|----------------------------|-----------|----------|
| Hexane | 110-54-3 | 80 |
| Diisobutylaluminum hydride | 1191-15-7 | 20 |

SECTION 4. FIRST AID MEASURES

General Advice

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye Contact

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

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Call a physician immediately.

Inhalation

If not breathing, give artificial respiration. Remove from exposure, lie down. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician immediately.

Ingestion

Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately.

Most important symptoms and effects

Causes burns by all exposure routes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

Self-Protection of the First Aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

Notes to Physician

Treat symptomatically. Symptoms may be delayed.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry sand. Powder. Dry chemical. Water mist may be used to cool closed containers.

Extinguishing media which must not be used for safety reasons

Water. Carbon dioxide (CO₂). Foam.

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Reacts violently with water.

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Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental Precautions

Should not be released into the environment.

Methods for Containment and Clean Up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Do not expose spill to water.

Refer to protective measures listed in Sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

Handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Do not allow contact with water. Handle under an inert atmosphere.

Storage

Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from water or moist air. Keep away from heat, sparks and flame. Keep under nitrogen. Containers should be vented periodically in order to overcome pressure buildup. Store under an inert atmosphere. Keep container tightly closed in a dry and well-ventilated place. Protect from moisture.

Specific Use(s)

Use in laboratories

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

| Component | China | Taiwan | Thailand | Hong Kong |
|-----------|---|---|--------------|--|
| Hexane | TWA: 100 mg/m ³ STEL: 180 mg/m ³ | TWA: 50 ppm TWA: 176 mg/m ³ | TWA: 500 ppm | TWA: 20 ppm TWA: 70 mg/m ³ |
| | Skin | | | |

| Component | ACGIH TLV | OSHA PEL | NIOSH | The United Kingdom | European Union |
|----------------------------|-------------|-----------------------------|----------------------------|-------------------------------|---------------------------------|
| Hexane | TWA: 50 ppm | (Vacated) TWA: 50 | IDLH: 1100 ppm | TWA: 72 mg/m ³ | TWA: 20 ppm (8hr) |
| | Skin | ppm | TWA: 50 ppm | TWA: 20 ppm | TWA: 72 mg/m ³ (8hr) |
| | | (Vacated) TWA: 180 | TWA: 180 mg/m ³ | STEL: 60 ppm | |
| | | mg/m³ | | STEL: 216 mg/m ³ | |
| | | TWA: 500 ppm | | _ | |
| | | TWA: 1800 mg/m ³ | | | |
| Diisobutylaluminum hydride | | (Vacated) TWA: 2 | TWA: 2 mg/m ³ | STEL: 6 mg/m3 15 min | |
| | | mg/m ³ | _ | TWA: 2 mg/m ³ 8 hr | |

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH: NIOSH - National Institute for Occupational Safety and Health

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of

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exposure to chemical and biological agents. MDHS70 General methods for sampling airborne gases and vapours MDHS 88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas chromatography MDHS 96 Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, solvent desorption and gas chromatography

Exposure Controls

Engineering Measures

Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

Personal protective equipment

Eye Protection Goggles (European standard - EN 166)

Hand Protection Protective gloves

| | Glove material | Breakthrough time | Glove thickness | EU standard | Glove comments |
|---|----------------|-------------------|-----------------|-------------|-----------------------|
| | Nitrile rubber | See manufacturers | - | EN 374 | (minimum requirement) |
| - | Viton (R) | recommendations | | | |

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection Long sleeved clothing

Respiratory Protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

To protect the wearer, respiratory protective equipment must be the correct fit and be used

and maintained properly

Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits

are exceeded or if irritation or other symptoms are experienced

Recommended Filter type: low boiling organic solvent Type AX Brown conforming to EN371 or Organic gases and vapours filter Type A Brown conforming to EN14387

ENST 1 of Organic gases and vapours liner Type A Brown comorning to EN 14367

Small scale/Laboratory use

Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Recommended half mask:- Valve filtering: EN405; or; Half mask: EN140; plus filter, EN

141

When RPE is used a face piece Fit Test should be conducted

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Prevent product from entering drains. Do not allow material to contaminate ground water

system.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Colorless
Physical State Liquid

Odor Petroleum distillates
Odor Threshold No data available
pH No information available

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Melting Point/Range -70 °C / -94 °F **Softening Point** No data available **Boiling Point/Range** No information available

> -23 °C / > -9.4 °F **Flash Point** Method - No information available

Evaporation Rate No data available Flammability (solid,gas) Not applicable

No data available **Explosion Limits**

.150 mmHg @ 25 °C **Vapor Pressure**

Vapor Density ~ 3.0 (Air = 1.0)

Specific Gravity / Density 0.701 **Bulk Density** Not applicable Liquid

Water Solubility Reacts with water Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Component log Pow Hexane 4.11

225 °C / 437 °F **Autoignition Temperature**

150 °C **Decomposition Temperature**

Viscosity

No data available **Explosive Properties**

Oxidizing Properties No information available

SECTION 10. STABILITY AND REACTIVITY

Stability Moisture sensitive. Air sensitive.

Hazardous Reactions None under normal processing. Reacts violently with water.

Hazardous Polymerization No information available.

Conditions to Avoid Incompatible products. Excess heat. Exposure to moist air or water. Exposure to moisture.

Keep away from open flames, hot surfaces and sources of ignition. Exposure to air.

Liquid

Vapors may form explosive mixtures with air

Materials to avoid Acids. Water. Alcohols. Amines. Chlorine. Fluorine. oxygen. Carbon dioxide (CO2). Strong

bases. Strong oxidizing agents.

Hazardous Decomposition Products Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen.

SECTION 11. TOXICOLOGICAL INFORMATION

Product Information

(a) acute toxicity;

Toxicology data for the components

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation | | | |
|-----------|----------------------|----------------------------|----------------------------|--|--|--|
| Hexane | LD50 = 25 g/kg (Rat) | LD50 = 3000 mg/kg (Rabbit) | LC50 = 48000 ppm (Rat) 4 h | | | |

Category 1 A (b) skin corrosion/irritation;

(c) serious eye damage/irritation; Category 1

(d) respiratory or skin sensitization;

Respiratory No data available No data available Skin

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(e) germ cell mutagenicity; No data available

No data available (f) carcinogenicity;

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity;

Category 2 **Reproductive Effects** Experiments have shown reproductive toxicity effects on laboratory animals.

(h) STOT-single exposure; Category 3

Results / Target organs Central nervous system (CNS)

(i) STOT-repeated exposure; Category 2

Target Organs Peripheral Nervous System (PNS), Central nervous system (CNS), Eyes, Respiratory

system, Skin.

(j) aspiration hazard; Category 1

Other Adverse Effects Teratogenic effects have occurred in experimental animals.

Symptoms / effects,both acute and Inhalation of high vapor concentrations may cause symptoms like headache. dizziness.

delayed

tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and

danger of perforation

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment. The product contains following substances which are hazardous for the

environment.

| Component | Freshwater Fish | Water Flea | Freshwater Algae | Microtox |
|-----------|---|------------|------------------|----------|
| | LC50: 2.1 - 2.98 mg/L, 96h flow-through (Pimephales promelas) | 3 | | |

Persistence and Degradability

Persistence

Persistence is unlikely.

Degradation in sewage treatment plant

Contains substances known to be hazardous to the environment or not degradable in waste

water treatment plants.

Bioaccumulative Potential Bioaccumulation is unlikely

| Component | log Pow | Bioconcentration factor (BCF) |
|-----------|---------|-------------------------------|
| Hexane | 4.11 | No data available |

Mobility in soil The product contains volatile organic compounds (VOC) which will evaporate easily from all

surfaces

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

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Persistent Organic Pollutant Ozone Depletion Potential This product does not contain any known or suspected substance
This product does not contain any known or suspected substance

SECTION 13. DISPOSAL CONSIDERATIONS

Waste from Residues/Unused

Products

Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

Contaminated Packaging

Dispose of this container to hazardous or special waste collection point. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and empty container away from heat and sources of ignition.

Other Information

Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Can be landfilled or incinerated, when in compliance with local regulations. Do not empty into drains. Large amounts will affect pH and harm aquatic organisms. Do not let this chemical enter the environment.

SECTION 14. TRANSPORT INFORMATION

Road and Rail Transport

UN-No UN3394

Proper Shipping Name ORGANOMETALLIC SUBSTANCE, LIQUID, PYROPHORIC, WATER-REACTIVE

Hazard Class 4.2 Subsidiary Hazard Class 4.3 Packing Group

IMDG/IMO

UN-No UN3394

Proper Shipping Name ORGANOMETALLIC SUBSTANCE, LIQUID, PYROPHORIC, WATER-REACTIVE

Hazard Class 4.2 Subsidiary Hazard Class 4.3 Packing Group

IATA FORBIDDEN FOR IATA TRANSPORT

UN-No UN3394

Proper Shipping Name ORGANOMETALLIC SUBSTANCE, LIQUID, PYROPHORIC, WATER-REACTIVE,

FORBIDDEN FOR IATA TRANSPORT

Hazard Class 4.2 Subsidiary Hazard Class 4.3 Packing Group

Special Precautions for User No special precautions required

SECTION 15. REGULATORY INFORMATION

International Inventories

X = listed, China (IECSC), Europe (EINECS/ELINCS/NLP), U.S.A. (TSCA), Canada (DSL/NDSL), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), Korea (KECL).

| Component | The Inventory of Hazardous Chemicals (2015 Edition) | | TCSI | IECSC | EINECS | TSCA | DSL | PICCS | ENCS | ISHL | AICS | KECL |
|--------------------|--|---|------|-------|-----------|------|-----|-------|------|------|------|----------|
| Hexane | X | X | X | Χ | 203-777-6 | Χ | Χ | Х | Χ | Χ | Χ | KE-18626 |
| Diisobutylaluminum | - | - | X | Х | 214-729-9 | Х | - | Х | Х | Х | Χ | KE-10903 |

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| hydride | | | | | | |
|---------|--|--|--|--|--|--|

National Regulations

SECTION 16. OTHER INFORMATION

Prepared By Health, Safety and Environmental Department

Creation Date 03-Jan-2005 **Revision Date** 03-Jan-2005 16-May-2024

Revision Summary New emergency telephone response service provider.

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Fire prevention and fighting, identifying hazards and risks, static electricity, explosive atmospheres posed by vapours and dusts. Chemical incident response training.

Legend

CAS - Chemical Abstracts Service

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

EINECS/ELINCS - European Inventory of Existing Commercial Chemical **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances/EU List of Notified Chemical Substances

Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

Substances List

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

DNEL - Derived No Effect Level **RPE** - Respiratory Protective Equipment

LC50 - Lethal Concentration 50%

NOEC - No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

PNEC - Predicted No Effect Concentration

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50% **POW** - Partition coefficient Octanol:Water **vPvB** - very Persistent, very Bioaccumulative

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

MARPOL - International Convention for the Prevention of Pollution from Ships

ATE - Acute Toxicity Estimate
VOC - (Volatile Organic Compound)

Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Physical hazards
Health Hazards
Calculation method
Environmental hazards
Cn basis of test data
Calculation method

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the

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date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of Safety Data Sheet