# Thermo Fisher SCIENTIFIC

# SAFETY DATA SHEET

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AI FAAI 14718

# Diisobutylaluminum hydride, 1M solution in toluene

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

产品说明: 二异丁基氢化铝, 1M 甲苯溶液

Product Description: Diisobutylaluminum hydride, 1M solution in toluene

Cat No. : L14718
Molecular Formula C8 H19 Al

Supplier Avocado Research Chemicals Ltd.

(Part of Thermo Fisher Scientific)

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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 StateAppearanceOdorLiquidColorlessNo information available

## **Emergency Overview**

Highly flammable liquid and vapor. In contact with water releases flammable gases which may ignite spontaneously. May be fatal if swallowed and enters airways. Suspected of damaging fertility or the unborn child. May cause drowsiness and dizziness. Toxic to aquatic life. Harmful to aquatic life with long lasting effects. Causes severe skin burns and eye damage. May cause damage to organs through prolonged or repeated exposure. Reacts violently with water. Moisture sensitive. Air 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
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
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 3

#### **Label Elements**

### Diisobutylaluminum hydride, 1M solution in toluene



### Signal Word

# Danger

#### **Hazard Statements**

- H225 Highly flammable liquid and vapor
- H260 In contact with water releases flammable gases which may ignite spontaneously
- H304 May be fatal if swallowed and enters airways
- H314 Causes severe skin burns and eye damage
- H336 May cause drowsiness or dizziness
- H373 May cause damage to organs through prolonged or repeated exposure
- H401 Toxic to aquatic life
- H412 Harmful to aquatic life with long lasting effects
- H361 Suspected of damaging fertility or the unborn child

#### **Precautionary Statements**

#### Prevention

- P201 Obtain special instructions before use
- 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
- 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
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- 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/protective clothing/eye protection/face protection

#### Response

- P331 Do NOT induce vomiting
- 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
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
- P302 + P335 + P334 IF ON SKIN: Brush off loose particles from skin. Immerse in cool water
- P362 + P364 Take off contaminated clothing and wash it before reuse

# **Storage**

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

#### Disposal

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

# **Physical and Chemical Hazards**

Vapors may cause flash fire or explosion. Highly flammable. Reacts violently with water, liberating extremely flammable gases. Reacts violently with water.

#### Health Hazards

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

#### **Environmental hazards**

Toxic to aquatic life. Harmful to aquatic life with long lasting effects. Reacts violently with water. Is not likely mobile in the environment due its low water solubility. Is not likely mobile in the environment. Spillage unlikely to penetrate soil. Reacts violently with water.

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Toxic to terrestrial vertebrates. This product does not contain any known or suspected endocrine disruptors.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight %		
Toluene	108-88-3	80-84		
Diisobutylaluminum hydride	1191-15-7	16-20		

### **SECTION 4. FIRST AID MEASURES**

#### **General Advice**

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

#### **Eve 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. Risk of serious damage to the lungs (by aspiration).

#### Ingestion

Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately. Call a physician or poison control center immediately. If vomiting occurs naturally, have victim lean forward.

#### 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. Carbon dioxide (CO<sub>2</sub>). Powder. Do not use water or foam. CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam. Water mist may be used to cool closed containers.

### Extinguishing media which must not be used for safety reasons

Water.

## **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. Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

# **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full

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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. Remove all sources of ignition. Take precautionary measures against static discharges.

#### **Environmental Precautions**

Do not flush into surface water or sanitary sewer system.

### 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. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

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. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

#### Storage

Corrosives area. Keep away from water or moist air. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Store under an inert atmosphere. Protect from moisture.

### Specific Use(s)

Use in laboratories

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Control Parameters**

	Component	China	Taiwan	Taiwan Thailand	
Γ	Toluene	TWA: 50 mg/m <sup>3</sup> TWA: 100 ppm		Ceiling: 300 ppm	TWA: 50 ppm
		STEL: 100 mg/m <sup>3</sup>	TWA: 376 mg/m <sup>3</sup>	STEL: 500 ppm	TWA: 188 mg/m <sup>3</sup>
L		Skin		TWA: 200 ppm	

Component	ACGIH TLV	OSHA PEL	NIOSH	The United Kingdom	European Union
Toluene	TWA: 20 ppm	(Vacated) TWA: 100	IDLH: 500 ppm	STEL: 100 ppm 15 min	TWA: 50 ppm (8hr)
		ppm	TWA: 100 ppm	STEL: 384 mg/m <sup>3</sup> 15	TWA: 192 mg/m <sup>3</sup> (8hr)
		(Vacated) TWA: 375	TWA: 375 mg/m <sup>3</sup>	min	STEL: 100 ppm
		mg/m³	STEL: 150 ppm	TWA: 50 ppm 8 hr	(15min)
		Ceiling: 300 ppm	STEL: 560 mg/m <sup>3</sup>	TWA: 191 mg/m <sup>3</sup> 8 hr	STEL: 384 mg/m <sup>3</sup>
		(Vacated) STEL: 150		Skin	(15min)
		ppm			Skin
		(Vacated) STEL: 560			
		mg/m³			
		TWA: 200 ppm			
Diisobutylaluminum hydride		(Vacated) TWA: 2	TWA: 2 mg/m <sup>3</sup>	STEL: 6 mg/m <sup>3</sup> 15 min	
		mg/m³		TWA: 2 mg/m <sup>3</sup> 8 hr	

**Legend** 

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

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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 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**

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment. 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	naterial Breakthrough time Glove thickness EU standard		EU standard	Glove comments
Nitrile rubber	480 minutes	0.7 mm	EN 374	(minimum requirement)
Viton (R)				

Inspect gloves before use.

Skin and body protection

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.

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: Brown Organic gases and vapours filter Type A conforming to EN14387

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.

Long sleeved clothing

**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

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Method - No information available

Vapors may form explosive mixtures with air

Liquid

(Air = 1.0)

Liquid

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Odor No information available

**Odor Threshold** рH

Melting Point/Range

No data available Not applicable No data available No data available

**Softening Point** 110 °C / 230 °F **Boiling Point/Range** 4 °C / 39.2 °F **Flash Point Evaporation Rate** 

No data available Not applicable

Flammability (solid,gas) **Explosion Limits** No data available

23 hPa @ 20 °C

**Vapor Pressure Vapor Density** No data available Specific Gravity / Density No data available

**Bulk Density** Not applicable Reacts violently with water **Water Solubility** No information available

Solubility in other solvents Partition Coefficient (n-octanol/water)

log Pow Component Toluene 2.73

No data available **Autoignition Temperature Decomposition Temperature** No data available No data available **Viscosity** 

**Explosive Properties** No information available

**Oxidizing Properties** 

C8 H19 AI **Molecular Formula Molecular Weight** 142.22

# **SECTION 10. STABILITY AND REACTIVITY**

Stability Air sensitive. Moisture sensitive.

**Hazardous Reactions** Reacts violently with water. **Hazardous Polymerization** No information available.

**Conditions to Avoid** Exposure to moist air or water. Exposure to moisture. Keep away from open flames, hot

surfaces and sources of ignition.

Materials to avoid Acids. halocarbons. Oxidizing agent.

Hazardous Decomposition Products Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Fumes of aluminum or aluminum oxide.

Isobutane.

# **SECTION 11. TOXICOLOGICAL INFORMATION**

## **Product Information**

(a) acute toxicity;

Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
Toluene	> 5000 mg/kg (Rat)	12000 mg/kg (Rabbit)	26700 ppm (Rat) 1 h		

(b) skin corrosion/irritation; Category 1 A

Category 1 (c) serious eye damage/irritation;

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(d) respiratory or skin sensitization;

Respiratory No data available Skin No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; Category 2

Reproductive Effects California Proposition 65. Reproductive toxicity.

(h) STOT-single exposure; Category 3

Results / Target organs Central nervous system (CNS)

(i) STOT-repeated exposure; Category 2

Target Organs Neuropsychological effects, Eyes, Ears.

(j) aspiration hazard; Category 1

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

Contains a substance which is:. Toxic to aquatic organisms. Reacts with water so no

ecotoxicity data for the substance is available.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Toluene	50-70 mg/L LC50 96 h	EC50: = 11.5 mg/L, 48h	EC50: = 12.5 mg/L, 72h	EC50 = 19.7  mg/L  30
	5-7 mg/L LC50 96 h	(Daphnia magna)	static	min
	15-19 mg/L LC50 96 h	EC50: 5.46 - 9.83 mg/L,	(Pseudokirchneriella	
	28 mg/L LC50 96 h	48h Static (Daphnia	subcapitata)	
	12 mg/L LC50 96 h	magna)	EC50: > 433 mg/L, 96h	
	_		(Pseudokirchneriella	
			subcapitata)	
			, ,	

Persistence and Degradability

Persistence Persistence is unlikely.

Degradability Reacts with water.

209.44.6	
Component	Degradability
Toluene	86% (20d)
108-88-3 ( 80-84 )	

Degradation in sewage

treatment plant

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

water treatment plants. Reacts violently with water.

Bioaccumulative Potential Bioaccumulation is unlikely

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Component	log Pow	Bioconcentration factor (BCF)
Toluene	2.73	90

Mobility in soil Spillage unlikely to penetrate soil Reacts violently with water Is not likely mobile in the

environment due its low water solubility Is not likely mobile in the environment

**Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential** 

This product does not contain any known or suspected endocrine disruptors

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

**Contaminated Packaging** 

**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.

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.

Do not flush to sewer. Waste codes should be assigned by the user based on the Other Information

> 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** UN3399

**Proper Shipping Name** 

**Technical Shipping Name** 

**Hazard Class** 

**Subsidiary Hazard Class** 

**Packing Group** 

ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLE

ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLE

(Diisobutylaluminium hydride, TOLUENE)

(Diisobutylaluminium hydride, TOLUENE)

4.3

3 ı

IMDG/IMO

UN3399 **UN-No** 

**Proper Shipping Name** 

**Technical Shipping Name** 

4.3

**Hazard Class Subsidiary Hazard Class** 

**Packing Group** 

3

IATA

UN-No UN3399 Organometallic substance, liquid, water-reactive, flammable

**Proper Shipping Name Technical Shipping Name** 

(Diisobutylaluminium hydride, TOLUENE) 4.3

**Hazard Class Subsidiary Hazard Class** 

**Packing Group** 

3

**Special Precautions for User** No special precautions required

**SECTION 15. REGULATORY INFORMATION** 

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### Diisobutylaluminum hydride, 1M solution in toluene

**International Inventories** 

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

Component	The Inventory of Hazardous Chemicals (2015 Edition)	goods GB	TCSI	IECSC	EINECS	TSCA	DSL	PICCS	ENCS	ISHL	AICS	KECL
Toluene	X	X	X	Χ	203-625-9	Χ	Χ	Χ	Χ	Χ	Χ	KE-33936
Diisobutylaluminum hydride	-	-	Х	Х	214-729-9	Х	1	Х	Х	Х	Х	KE-10903

# **National Regulations**

# **SECTION 16. OTHER INFORMATION**

Health, Safety and Environmental Department **Prepared By** 

**Revision Date** 08-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

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

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

Physical hazards

Health Hazards

Environmental hazards

On basis of test data
Calculation method
Calculation method

#### Disclaimer

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