

ALFAAL11430

1,2-Dihydronaphthalene

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

产品说明:	1,2-二氢萘, 96%
Product Description:	1,2-Dihydronaphthalene
Cat No. :	L11430
CAS No	447-53-0
Molecular Formula	C10 H10
Supplier	Avocado Research Chemicals Ltd. (Part of Thermo Fisher Scientific) Shore Road, Heysham Lancashire, LA3 2XY, United Kingdom Office Tel: +44 (0) 1524 850506 Office Fax: +44 (0) 1524 850608
Emergency Telephone Number	For information US call: 001-800-227-6701 / Europe call: +32 14 57 52 11 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 State
Liquid

Appearance Light brown Odor No information available

Emergency Overview

Combustible liquid. May be harmful if swallowed.

Classification of the substance or mixture

Flammable liquids.	Category 4
Acute Oral Toxicity	Category 5

Label Elements

None required

Signal Word

Warning

Hazard Statements

H227 - Combustible liquid H303 - May be harmful if swallowed

Precautionary Statements

Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

1,2-Dihydronaphthalene

P270 - Do not eat, drink or smoke when using this product

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

Response

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
Storage
P403 + P235 - Store in a well-ventilated place. Keep cool
Disposal

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

Physical and Chemical Hazards

Combustible material.

Health Hazards

May be harmful if swallowed.

Environmental hazards

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants. Will likely be mobile in the environment due to its volatility. 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 %
1,2-Dihydronaphthalene	447-53-0	96

SECTION 4. FIRST AID MEASURES

Eye Contact

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

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

Inhalation

Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.

Ingestion

Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

Most important symptoms and effects

Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Self-Protection of the First Aider

No special precautions required.

Notes to Physician

Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam. Water mist may be used to cool closed containers.

Extinguishing media which must not be used for safety reasons No information available.

Specific Hazards Arising from the Chemical

1,2-Dihydronaphthalene

Combustible material. Containers may explode when heated.

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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Take precautionary measures against static discharges. Ensure adequate ventilation. Use personal protective equipment as required. Remove all sources of ignition.

Environmental Precautions

Should not be released into the environment.

Methods for Containment and Clean Up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Take precautionary measures against static discharges. Remove all sources of ignition.

Refer to protective measures listed in Sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

Handling

Avoid contact with skin and eyes. Do not breathe mist/vapors/spray. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.

Storage

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame.

Specific Use(s)

Use in laboratories

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

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

None under normal use conditions. Ensure adequate ventilation, especially in confined areas. .

Personal protective equipment

Eye Protection	Wear safety glasses with side shields (or goggles) (European standard - EN 166)
Hand Protection	Protective gloves

SAFETY DATA SHEET

1,2-Dihydronaphthalene

Glove material B	reakthrough time	Glove thickness	EU standard	Glove comments		
1	ee manufacturers ecommendations	-	EN 374	(minimum requirement)		
Inspect gloves before use. Please observe the instruction (Refer to manufacturer/supple Ensure gloves are suitable for	ons regarding permi ier for information) or the task: Chemic e into consideration	al compatability, Dex the specific local co	terity, Operational cond	ovided by the supplier of the gloves. ditions, User susceptibility, e.g. he product is used, such as the danger		
Skin and body protection	prevent skin exposure					
Respiratory Protection	No prote	ctive equipment is n	eeded under normal us	se conditions.		
Large scale/emergency	are exce	Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure lir are exceeded or if irritation or other symptoms are experienced Recommended Filter type: Particle filter				
Small scale/Laboratory	use Maintain	adequate ventilation	n			
Hygiene Measures	Handle i	n accordance with g	ood industrial hygiene a	and safety practice.		
Environmental exposure co	ontrols No inform	nation available.				
	SECTION 9.	PHYSICAL AND	CHEMICAL PROPE	RTIES		
Appearance Physical State	Light bro Liquid	wn				
Odor Odor Threshold pH Melting Point/Range Softening Point Boiling Point/Range Flash Point	No data No inforr -8 °C / No data	nation available available nation available 17.6 °F available				
Evaporation Rate Flammability (solid,gas) Explosion Limits	67 °C No data Not appl	/ 192.2 °F / 152.6 °F available icable available	@ 16 mmHg Method - N Liquid) o information available		
Evaporation Rate Flammability (solid,gas)	67 °C No data Not appl No data 16 mmH 4.5 0.990 Not appl Insoluble No inform anol/water) No data	/ 152.6 °F available icable available g @ 89 °C icable	Method - N			
Evaporation Rate Flammability (solid,gas) Explosion Limits Vapor Pressure Vapor Density Specific Gravity / Density Bulk Density Water Solubility Solubility in other solvents Partition Coefficient (n-oct Autoignition Temperature	67 °C No data Not appl No data 16 mmH 4.5 0.990 Not appl Insoluble No inform anol/water) No data re No data No data	/ 152.6 °F available icable available g @ 89 °C icable e mation available available	Method - N Liquid (Air = 1.0) Liquid			

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SECTION 10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Hazardous Reactions Hazardous Polymerization	No information available. Hazardous polymerization does not occur.
Conditions to Avoid	Excess heat. Keep away from open flames, hot surfaces and sources of ignition.
Materials to avoid	Strong oxidizing agents.

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

SECTION 11. TOXICOLOGICAL INFORMATION

Product Information

No acute toxicity information is available for this product

(a) acute toxicity:

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
1,2-Dihydronaphthalene	LD50 = 2830 µL/kg (Rat)		
(b) skin corrosion/irritation;	No data available		
(c) serious eye damage/irritation;	No data available		
(d) respiratory or skin sensitization; Respiratory Skin	No data available No data available		
(e) germ cell mutagenicity;	No data available		
(f) carcinogenicity;	No data available		
	There are no known carcinoge	nic chemicals in this product	
(g) reproductive toxicity;	No data available		
(h) STOT-single exposure;	No data available		
(i) STOT-repeated exposure;	No data available		
Target Organs	No information available.		
(j) aspiration hazard;	No data available		
Symptoms / effects,both acute and delayed	Symptoms of overexposure ma	ay be headache, dizziness, tire	dness, nausea and vomiting

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

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Persistence and Degradability Persistence	Persistence is unlikely, based on information available.
Bioaccumulative Potential	Bioaccumulation is unlikely
Mobility in soil	The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces Will likely be mobile in the environment due to its volatility Disperses rapidly in air
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 Products	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
Contaminated Packaging	Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.
Other Information	Waste codes should be assigned by the user based on the application for which the product was used.
	SECTION 14. TRANSPORT INFORMATION
Road and Rail Transport	Not Regulated
IMDG/IMO_	Not regulated
IATA	Not regulated
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	List of	TCSI	IECSC	EINECS	TSCA	DSL	PICCS	ENCS	ISHL	AICS	KECL
		dangerous goods GB 12268 - 2012										
1,2-Dihydronaphthalen e	-	-	Х	-	207-183-8	-	-	-	Х	х	-	KE-10722

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National Regulations

SECTION 16. OTHER INFORMATION

Prepared By	Health, Safety and Environmental Department
Revision Date	25-Apr-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.

Legend					
CAS - Chemical Abstracts Service	TSCA - United States Toxic Substances Control Act Section 8(b) Inventory				
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances					
PICCS - Philippines Inventory of Chemicals and Chemical Substances IECSC - Chinese Inventory of Existing Chemical Substances	ENCS - Japanese Existing and New Chemical Substances AICS - Australian Inventory of Chemical Substances				
KECL - Korean Existing and Evaluated Chemical Substances	NZIOC - New Zealand Inventory of Chemicals				
WEL - Workplace Exposure Limit	TWA - Time Weighted Average				
ACGIH - American Conference of Governmental Industrial Hygienists DNEL - Derived No Effect Level	IARC - International Agency for Research on Cancer PNEC - Predicted No Effect Concentration				
RPE - Respiratory Protective Equipment	LD50 - Lethal Dose 50%				
LC50 - Lethal Concentration 50%	EC50 - Effective Concentration 50%				
NOEC - No Observed Effect Concentration	POW - Partition coefficient Octanol:Water				
PBT - Persistent, Bioaccumulative, Toxic	vPvB - very Persistent, very Bioaccumulative				
ICAO/IATA - International Civil Aviation Organization/International Air Transport Association	IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code				
ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road	MARPOL - International Convention for the Prevention of Pollution from Ships				
OECD - Organisation for Economic Co-operation and Development	ATE - Acute Toxicity Estimate				
BCF - Bioconcentration factor	VOC - (Volatile Organic Compound)				
Key literature references and sources for data https://echa.europa.eu/information-on-chemicals	TEOD				
Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, R	IEGO				

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