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ALFAAL12089

## (+/-)-Anabasine

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

产品说明:	(±)-毒藜碱
Product Description:	(+/-)-Anabasine
Cat No. :	L12089
Synonyms	Anabasine
CAS No	13078-04-1
Molecular Formula	C10 H14 N2
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 <b>US</b> call: 001-800-227-6701 / <b>Europe</b> call: +32 14 57 52 11 Emergency Number <b>US</b> :001-201-796-7100 / <b>Europe:</b> +32 14 57 52 99 <b>CHEMTREC</b> Tel. No. <b>US</b> :001-800-424-9300 / <b>Europe:</b> 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 Colourless Odor No information available

**Emergency Overview** 

Combustible liquid. Fatal if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Hygroscopic.

## Classification of the substance or mixture

Flammable liquids.	Category 4
Acute Oral Toxicity	Category 2
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity - (single exposure)	Category 3

Label Elements



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## Signal Word

## Danger

## Hazard Statements

H227 - Combustible liquid

H300 - Fatal if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

## **Precautionary Statements**

#### Prevention

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

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

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

P264 - Wash face, hands and any exposed skin thoroughly after handling

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

P271 - Use only outdoors or in a well-ventilated area

## Response

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P312 - Call a POISON CENTER or doctor if you feel unwell

P330 - Rinse mouth

P362 + P364 - Take off contaminated clothing and wash it before reuse

Storage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

## Disposal

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

## Physical and Chemical Hazards

Combustible material. Hygroscopic.

## **Health Hazards**

Very toxic if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

#### **Environmental hazards**

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

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

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight %
2-Pyridin-3-ylpiperidine	13078-04-1	>95

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

## **General Advice**

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

## Eye Contact

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

## Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

## Inhalation

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Remove to fresh air. If breathing is difficult, give oxygen. 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. Immediate medical attention is required.

## Ingestion

Do NOT induce vomiting. Call a physician or poison control center immediately.

## 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

Use personal protective equipment as required.

## Notes to Physician

Treat symptomatically.

## **SECTION 5. FIRE-FIGHTING MEASURES**

## Suitable Extinguishing Media

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant 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

Keep product and empty container away from heat and sources of ignition. Risk of ignition. 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. 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. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Remove all sources of ignition. Take precautionary measures against static discharges.

## **Environmental Precautions**

Should not be released into the environment. See Section 12 for additional Ecological Information.

## Methods for Containment and Clean Up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition.

Refer to protective measures listed in Sections 8 and 13.

## **SECTION 7. HANDLING AND STORAGE**

#### Handling

Use only under a chemical fume hood. Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance. Do not breathe mist/vapors/spray. Keep away from open flames, hot surfaces and sources of ignition.

## Storage

To maintain product quality: Store in freezer. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame.

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## 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

## Exposure Controls

## Engineering Measures

Use only under a chemical fume hood. 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 Natural rubber Nitrile rubber Neoprene PVC	Breakthrough time See manufacturers recommendations	Glove thickness	EU standard EN 374	Glove comments (minimum requirement)
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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 <b>Recommended Filter type:</b> Particulates filter conforming to EN 143 Ammonia and organic ammonia derivatives filter Type K Green 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. <b>Recommended half mask:-</b> 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	No information available.

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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance Physical State	Colourless Liquid	
Odor Odor Threshold pH Melting Point/Range Softening Point Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas) Explosion Limits	No information available No data available Not applicable 9 °C / 48.2 °F No data available 270 - 272 °C / 518 - 521.6 °F 93 °C / 199.4 °F No data available Not applicable No data available	Based on available literature @ 760 mmHg <b>Method -</b> No information available Liquid
Vapor Pressure Vapor Density Specific Gravity / Density Bulk Density Water Solubility Solubility in other solvents	No information available No data available 1.046 Not applicable No information available No information available	(Air = 1.0) Liquid
Partition Coefficient (n-octanol/wat Component 2-Pyridin-3-ylpiperidine Autoignition Temperature Decomposition Temperature Viscosity Explosive Properties Oxidizing Properties	<b>log Pow</b> 1.25 No data available No information available No information available No information available	explosive air/vapour mixtures possible
Molecular Formula Molecular Weight	C10 H14 N2 162.23	

## SECTION 10. STABILITY AND REACTIVITY

Stability	Hygroscopic.
Hazardous Reactions Hazardous Polymerization	None under normal processing. Hazardous polymerization does not occur.
Conditions to Avoid	Incompatible products. Excess heat. Exposure to moisture.
Materials to avoid	Acids. Strong oxidizing agents.

Hazardous Decomposition Products Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NOx).

## SECTION 11. TOXICOLOGICAL INFORMATION

Product InformationProduct is toxic by ingestion(a) acute toxicity;Category 2(b) skin corrosion/irritation;Category 2(c) serious eye damage/irritation;Category 2

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(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 carcinogenic chemicals in	this product	
(g) reproductive toxicity;	No data available		
(h) STOT-single exposure;	Category 3		
Results / Target organs	Respiratory system		
(i) STOT-repeated exposure;	No data available		
Target Organs	No information available.		
(j) aspiration hazard;	No data available		
Other Adverse Effects	The toxicological properties have not been fully investigated.		
Symptoms / effects,both acute and delayed	Symptoms of overexposure may be headache	, dizziness, tiredness, nausea and vomiting	
	SECTION 12. ECOLOGICAL INFORMA	ΓΙΟΝ	
Ecotoxicity effects	SECTION 12. ECOLOGICAL INFORMATION Contains no substances known to be hazardou degradable in waste water treatment plants.		
Ecotoxicity effects Persistence and Degradability Persistence	Contains no substances known to be hazardou		
Persistence and Degradability	Contains no substances known to be hazardou degradable in waste water treatment plants. No information available		
Persistence and Degradability Persistence Bioaccumulative Potential Component	Contains no substances known to be hazardou degradable in waste water treatment plants. No information available Persistence is unlikely.		
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Persistence and Degradability Persistence Bioaccumulative Potential <u>Component</u> 2-Pyridin-3-ylpiperidine	Contains no substances known to be hazardou degradable in waste water treatment plants. No information available Persistence is unlikely. Bioaccumulation is unlikely log Pow 1.25	us to the environment or that are not  Bioconcentration factor (BCF) No data available  Ispected endocrine disruptors Ispected substance	
Persistence and Degradability Persistence Bioaccumulative Potential <u>Component</u> 2-Pyridin-3-ylpiperidine Mobility in soil Endocrine Disruptor Information Persistent Organic Pollutant	Contains no substances known to be hazardou degradable in waste water treatment plants. No information available Persistence is unlikely. Bioaccumulation is unlikely <u>log Pow</u> 1.25 No information available This product does not contain any known or su This product does not contain any known or su	us to the environment or that are not Bioconcentration factor (BCF) No data available Ispected endocrine disruptors Ispected substance Ispected substance	
Persistence and Degradability Persistence Bioaccumulative Potential <u>Component</u> 2-Pyridin-3-ylpiperidine Mobility in soil Endocrine Disruptor Information Persistent Organic Pollutant	Contains no substances known to be hazardou degradable in waste water treatment plants. No information available Persistence is unlikely. Bioaccumulation is unlikely <u>log Pow</u> 1.25 No information available This product does not contain any known or su This product does not contain any known or su This product does not contain any known or su	Bioconcentration factor (BCF) No data available No data available Ispected endocrine disruptors Ispected substance Ispected substance	

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**Other Information** 

Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains.

## **SECTION 14. TRANSPORT INFORMATION**

## Road and Rail Transport

UN-No	UN3140
Proper Shipping Name	ALKALOIDS, LIQUID, N.O.S.
Technical Shipping Name	2-Pyridin-3-ylpiperidine
Hazard Class	6.1
Packing Group	II
IMDG/IMO	
UN-No	UN3140
Proper Shipping Name	ALKALOIDS, LIQUID, N.O.S.
Technical Shipping Name	2-Pyridin-3-ylpiperidine
Hazard Class	6.1
Packing Group	II
IATA	
UN-No	UN3140
Proper Shipping Name	ALKALOIDS, LIQUID, N.O.S.
Technical Shipping Name	2-Pyridin-3-ylpiperidine
Hazard Class	6.1

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Special Precautions for User

**Packing Group** 

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).

## **National Regulations**

## **SECTION 16. OTHER INFORMATION**

Prepared By
Creation Date
Revision Date
Revision Summary

Health, Safety and Environmental Department 15-Jul-2009 27-Apr-2024 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.

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

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

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## 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 **ENCS** - Japanese Existing and New Chemical Substances **IECSC** - Chinese Inventory of Existing 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 IARC - International Agency for Research on Cancer **DNEL** - Derived No Effect Level 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 IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code **Transport Association** ADR - European Agreement Concerning the International Carriage of MARPOL - International Convention for the Prevention of Pollution from Dangerous Goods by Road 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

## 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**