

ALFAAL02883

# 1-Undecyne

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

| 产品说明:                      | 1-十一炔   |
|----------------------------|---|
| Product Description:       | 1-Undecyne  |
| Cat No. :                  | <b>L02883</b>   |
| CAS No                     | 2243-98-3   |
| Molecular Formula          | C11 H20   |
| Supplier                   | Avocado Research Chemicals Ltd.<br>(Part of Thermo Fisher Scientific)<br>Shore Road, Heysham<br>Lancashire, LA3 2XY,<br>United Kingdom<br>Office Tel: +44 (0) 1524 850506<br>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<br>Emergency Number <b>US</b> :001-201-796-7100 / <b>Europe:</b> +32 14 57 52 99<br><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 No information available Odor Characteristic

Category 4

Emergency Overview Combustible liquid.

Classification of the substance or mixture

Flammable liquids.

Label Elements

None required

**Signal Word** 

Warning

Hazard Statements H227 - Combustible liquid

#### Precautionary Statements Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P280 - Wear protective gloves/protective clothing/eye protection/face protection **Response** 

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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

The product contains no substances which at their given concentration are considered to be hazardous to health.

### Environmental hazards

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants. Is not likely mobile in the environment due its low water solubility. Spillage unlikely to penetrate soil. The product is insoluble and floats on water. The product evaporates slowly.

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

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component  | CAS No    | Weight % |
|------------|-----------|----------|
| 1-Undecyne | 2243-98-3 | <=100    |

# **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.

#### Ingestion

Clean mouth with water and drink afterwards plenty of water. Get medical attention 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

Carbon dioxide (CO<sub>2</sub>). Powder. Water spray. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. 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

Combustible material. Containers may explode when heated.

#### **Protective Equipment and Precautions for Firefighters**

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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**

Ensure adequate ventilation. Use personal protective equipment as required. 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

Sweep up and shovel into suitable containers for disposal. Remove all sources of ignition.

Refer to protective measures listed in Sections 8 and 13.

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

#### Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition.

#### Storage

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

#### 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

| <b>Glove material</b><br>Nitrile rubber<br>Neoprene<br>Natural rubber | Breakthrough time<br>See manufacturers<br>recommendations | Glove thickness<br>- | EU standard<br>EN 374 | Glove comments<br>(minimum requirement) |
|---|---|----------------------|-----------------------|---|
| PVC   |   |                      |                       |   |

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.

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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          | No protective equipment is needed under normal use conditions.  |
| 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> Particle filter |
| Small scale/Laboratory use      | Maintain adequate ventilation<br><b>Recommended half mask:-</b> Valve filtering: EN405; or; Half mask: EN140; plus filter, EN<br>141  |
| Hygiene Measures                | Handle in accordance with good industrial hygiene and safety practice.  |
| Environmental exposure controls | No information available.   |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance<br>Physical State         | Liquid                              |  |
|--------------------------------------|-------------------------------------|--|
| Odor<br>Odor Threshold               | Characteristic<br>No data available |  |
| pH                                   | No information available            |  |
| Melting Point/Range                  | -25 °C / -13 °F                     |  |
| Softening Point                      | No data available                   |  |
| Boiling Point/Range                  | 196 °C / 384.8 °F                   |  |
| Flash Point                          | 65 °C / 149 °F                      | Method - No information available      |
| Evaporation Rate                     | No data available                   |  |
| Flammability (solid,gas)             | Not applicable                      | Liquid                                 |
| Explosion Limits                     | No data available                   |  |
| Vapor Pressure                       | No data available                   |  |
| Vapor Density                        | No data available                   | (Air = 1.0)                            |
| Specific Gravity / Density           | 0.77 g/cm3                          | @ 20 °C ′                              |
| Bulk Density                         | Not applicable                      | Liquid                                 |
| Water Solubility                     | Immiscible                          |  |
| Solubility in other solvents         | No information available            |  |
| Partition Coefficient (n-octanol/wat | er)                                 |  |
| Autoignition Temperature             | No data available                   |  |
| Decomposition Temperature            | No data available                   |  |
| Viscosity                            | No data available                   |  |
| Explosive Properties                 |                                     | explosive air/vapour mixtures possible |
| Oxidizing Properties                 | No information available            |  |
| Molecular Formula                    | C11 H20                             |  |
| Molecular Veight                     | 152.28                              |  |
| molecular melylik                    | 102.20                              |  |

# SECTION 10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

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| None under normal processing.<br>No information available.        |
|---|
| Keep away from open flames, hot surfaces and sources of ignition. |
| Oxidizing agent.  |
|   |

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

# SECTION 11. TOXICOLOGICAL INFORMATION

| Product Information  |   |
|--|---|
| (a) acute toxicity;  |   |
| (b) skin corrosion/irritation;                               | No data available   |
| (c) serious eye damage/irritation;                           | No data available   |
| (d) respiratory or skin sensitization<br>Respiratory<br>Skin | No data available<br>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;                                    | 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 may be headache, dizziness, tiredness, 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. |
|--|---|
| Persistence and Degradability<br>Persistence | Immiscible with water, May persist, based on information available.   |
| Bioaccumulative Potential                    | May have some potential to bioaccumulate  |

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| Mobility in soil   | Spillage unlikely to penetrate soil The product is insoluble and floats on water The product evaporates slowly Is not likely mobile in the environment due its low water solubility Spillage unlikely to penetrate soil     |
|--|---|
| Endocrine Disruptor Information<br>Persistent Organic Pollutant<br>Ozone Depletion Potential | This product does not contain any known or suspected endocrine disruptors<br>This product does not contain any known or suspected substance<br>This product does not contain any known or suspected substance               |
|  | SECTION 13. DISPOSAL CONSIDERATIONS   |
| Waste from Residues/Unused<br>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   |
| ΙΑΤΑ   | 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<br>Inventory of<br>Hazardous<br>Chemicals<br>(2015 | goods GB | TCSI | IECSC | EINECS    | TSCA | DSL | PICCS | ENCS | ISHL | AICS | KECL     |
|------------|--|----------|------|-------|-----------|------|-----|-------|------|------|------|----------|
|            | Edition)   | 2012     |      |       |           |      |     |       |      |      |      |          |
| 1-Undecyne | -  | -        | Х    | -     | 218-825-1 | Х    | -   | -     | -    |      | -    | KE-35118 |

# **National Regulations**

# **SECTION 16. OTHER INFORMATION**

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#### Prepared By Revision Date Revision Summary

### Health, Safety and Environmental Department 01-May-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.

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| Le  | gend_  |
|---|--|
| CAS - Chemical Abstracts Service<br>EINECS/ELINCS - European Inventory of Existing Commercial Chemical<br>Substances/EU List of Notified Chemical Substances  | TSCA - United States Toxic Substances Control Act Section 8(b)<br>Inventory<br>I DSL/NDSL - Canadian Domestic Substances List/Non-Domestic<br>Substances List  |
| PICCS - Philippines Inventory of Chemical Substances<br>IECSC - Chinese Inventory of Existing Chemical Substances<br>KECL - Korean Existing and Evaluated Chemical Substances   | ENCS - Japanese Existing and New Chemical Substances<br>AICS - Australian Inventory of Chemical Substances<br>NZIOC - New Zealand Inventory of Chemicals   |
| WEL - Workplace Exposure Limit<br>ACGIH - American Conference of Governmental Industrial Hygienists<br>DNEL - Derived No Effect Level<br>RPE - Respiratory Protective Equipment<br>LC50 - Lethal Concentration 50%<br>NOEC - No Observed Effect Concentration<br>PBT - Persistent, Bioaccumulative, Toxic | <ul> <li>TWA - Time Weighted Average</li> <li>IARC - International Agency for Research on Cancer</li> <li>PNEC - Predicted No Effect Concentration</li> <li>LD50 - Lethal Dose 50%</li> <li>EC50 - Effective Concentration 50%</li> <li>POW - Partition coefficient Octanol:Water</li> <li>vPvB - very Persistent, very Bioaccumulative</li> </ul> |
| ICAO/IATA - International Civil Aviation Organization/International Air<br>Transport Association<br>ADR - European Agreement Concerning the International Carriage of<br>Dangerous Goods by Road<br>OECD - Organisation for Economic Co-operation and Development<br>BCF - Bioconcentration factor        | IMO/IMDG - International Maritime Organization/International Maritime<br>Dangerous Goods Code<br>MARPOL - International Convention for the Prevention of Pollution from<br>Ships<br>ATE - Acute Toxicity Estimate<br>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

### 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**