

ALFAAA17928

N-Methylacetamide

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

| 产品说明: | N-甲基乙酰胺 |
|----------------------------|---|
| Product Description: | N-Methylacetamide |
| Cat No. : | A17928 |
| Synonyms | Methylacetamide.; Monomethylacetamide |
| CAS No | 79-16-3 |
| Molecular Formula | C3 H7 N O |
| 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 | Appearance |
|----------------|------------|
| Solid | Clear |
| | |

Odor Odorless

Emergency Overview May damage fertility or the unborn child.

Classification of the substance or mixture

Reproductive Toxicity

Label Elements



Signal Word

Danger

Hazard Statements H360 - May damage fertility or the unborn child

Category 1B

N-Methylacetamide

Precautionary Statements

Prevention

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P280 - Wear protective gloves/protective clothing/eye protection/face protection
Response
P308 + P313 - IF exposed or concerned: Get medical advice/attention
Storage
P403 - Store in a well-ventilated place
Disposal
P501 - Dispose of contents/ container to an approved waste disposal plant

Physical and Chemical Hazards None identified. Health Hazards

May damage fertility or the unborn child.

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 water solubility. The product is water soluble, and may spread in water systems.

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS No | Weight % |
|-------------------|---------|----------|
| N-Methylacetamide | 79-16-3 | > 99 |

SECTION 4. FIRST AID MEASURES

Eye Contact

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

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.

Inhalation

Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Immediate medical attention is required.

Ingestion

Call a physician immediately. Clean mouth with water.

Most important symptoms and effects

No information available.

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.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO₂). Dry chemical. Chemical foam.

N-Methylacetamide

Extinguishing media which must not be used for safety reasons

No information available.

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

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

Ensure adequate ventilation.

Environmental Precautions

See Section 12 for additional Ecological Information.

Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal.

Refer to protective measures listed in Sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

Handling

Do not breathe dust. Do not get in eyes, on skin, or on clothing. Handle product only in closed system or provide appropriate exhaust ventilation.

Storage

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep under nitrogen.

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. MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

Exposure Controls

Engineering Measures

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)

N-Methylacetamide

| Hand Protection | Protect | ive gloves | | |
|---|---|---|-------------------------|--|
| Glove material Nitrile rubber Neoprene Natural rubber PVC | Breakthrough time See manufacturers recommendations | | EU standard EN 374 | Glove comments (minimum requirement) |
| Refer to manufacturer/s | ructions regarding perr supplier for information ble for the task: Chemi o take into consideration |) cal compatability, Dex on the specific local co | terity, Operational con | ovided by the supplier of the gloves. ditions, User susceptibility, e.g. he product is used, such as the dange |
| Skin and body pro | tection Wear a | ppropriate protective | gloves and clothing to | prevent skin exposure |

| Skin and body protection | Wear appropriate protective gloves and clothing to prevent skin exposure |
|---------------------------------|--|
| 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: Particulates filter conforming to EN 143 |
| 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:- Particle filtering: EN149:2001 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. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance Physical State | Clear Solid | |
|---|---|--|
| Odor Odor Threshold pH Melting Point/Range | Odorless No data available No information available 26 - 28 °C / 78.8 - 82.4 °F | |
| Softening Point Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas) | No data available 204 - 206 °C / 399.2 - 402.8 °F 116 °C / 240.8 °F Not applicable No information available | Ø 760 mmHg Method - No information available Solid |
| Explosion Limits Vapor Pressure | Lower 3.2 Upper 18.1 2 hPa @ 20 °C | |
| Vapor Density Specific Gravity / Density Bulk Density Water Solubility Solubility in other solvents | Not applicable 0.946 No data available freely soluble in water No information available | Solid |
| Partition Coefficient (n-octanol/wat Autoignition Temperature Decomposition Temperature Viscosity | | Solid |

N-Methylacetamide

Explosive Properties Oxidizing Properties No information available No information available

Molecular Formula Molecular Weight C3 H7 N O 73.1

SECTION 10. STABILITY AND REACTIVITY

| Stability | Stable under normal conditions. |
|---|--|
| Hazardous Reactions Hazardous Polymerization | No information available. No information available. |
| Conditions to Avoid | Incompatible products. |
| Materials to avoid | Strong oxidizing agents. |

Hazardous Decomposition Products Nitrogen oxides (NOx). 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 |
| N-Methylacetamide | LD50 = 5 g/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 carcinogenic chemicals in this product
- (g) reproductive toxicity; Category 1B
- (h) STOT-single exposure; No data available
- (i) STOT-repeated exposure; No data available
- Target OrgansNo information available.
- (j) aspiration hazard; Not applicable Solid

N-Methylacetamide

Symptoms / effects, both acute and No information available delayed

| | SECTION 12. ECOLOGICAL INFORMATION |
|--|---|
| Ecotoxicity effects | |
| Persistence and Degradability Persistence | Expected to be biodegradable Soluble in water, Persistence is unlikely, based on information available. |
| Bioaccumulative Potential | Bioaccumulation is unlikely |
| Mobility in soil | The product is water soluble, and may spread in water systems Will likely be mobile in the environment due to its water solubility Highly mobile in soils |
| 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 | 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. |
| 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 | Not Regulated |
| IMDG/IMO_ | Not regulated |
| IATA | Not regulated |
| Special Precautions for User | No special precautions required |

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 |
|-----------|--------------|----------------|------|-------|--------|------|-----|-------|------|------|------|------|
| | Inventory of | dangerous | | | | | | | | | | |
| | Hazardous | goods GB | | | | | | | | | | |
| | Chemicals | 12268 - | | | | | | | | | | |

N-Methylacetamide

| | | (2015 Edition) | 2012 | | | | | | | | | | |
|-----|-----------------|-------------------|------|---|---|-----------|---|---|---|---|---|---|----------|
| N-M | lethylacetamide | - | - | Х | Х | 201-182-6 | Х | Х | Х | Х | Х | Х | KE-23402 |

National Regulations

SECTION 16. OTHER INFORMATION

Prepared By Revision Date Revision Summary Health, Safety and Environmental Department 29-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.

Legend

| CAS - Chemical Abstracts Service 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 KECL - Korean Existing and Evaluated Chemical Substances | TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic 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

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

N-Methylacetamide

End of Safety Data Sheet