

Safety Data Sheet

N,N-dimethylacetamide-d9

Classification acc. to 29 CFR 1910.1200

Version number: GHS 2.1
Replaces version of: 2021-06-28 (GHS 1)

Revision: 2023-02-02

SECTION 1: Identification

1.1 Product identifier

Identification of the substance
CAS number

N,N-dimethylacetamide-d9
116057-81-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

industrial uses
the product is intended for research, analysis and scientific education
scientific research and development
product and process oriented research and development
laboratory and analytical use
laboratory chemical

1.3 Details of the supplier of the safety data sheet

Zeochem AG
Joweid 5, CH-8630 Rüti
Switzerland

Telephone: +41 44 922 93 93
e-Mail: info@zeochem.com / info@zeochem.ch
Website: <https://www.zeochem.com>

1.4 Emergency telephone number

| Poison center | | |
|---------------|--------------------------------------|-------------------------------------|
| Country | Name | Telephone |
| Switzerland | Toxzentrum Zürich / Tox. Info Suisse | +41 44 251 51 51 / CH: 145 - 24h/7d |
| United States | CHEMTREC USA | +1 800 424 9300 - 24h/7d |

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

| Section | Hazard class | Category | Hazard class and category | Hazard statement |
|---------|-----------------------------------|----------|---------------------------|------------------|
| A.1D | acute toxicity (dermal) | 4 | Acute Tox. 4 | H312 |
| A.1I | acute toxicity (inhal.) | 4 | Acute Tox. 4 | H332 |
| A.3 | serious eye damage/eye irritation | 2 | Eye Irrit. 2 | H319 |
| A.6 | carcinogenicity | 2 | Carc. 2 | H351 |
| A.7 | reproductive toxicity | 1B | Repr. 1B | H360D |
| B.6 | flammable liquid | 4 | Flam. Liq. 4 | H227 |

For full text of abbreviations: see SECTION 16.

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The most important adverse physicochemical, human health and environmental effects
The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word danger

2.2.1.2 Pictograms

| | |
|--------------|--|
| GHS07, GHS08 |   |
|--------------|--|

| Hazard statements | |
|-------------------|--|
| H227 | combustible liquid |
| H312+H332 | harmful in contact with skin or if inhaled |
| H319 | causes serious eye irritation |
| H351 | suspected of causing cancer |
| H360D | may damage the unborn child |

| Precautionary statements | |
|--------------------------|---|
| P201 | obtain special instructions before use |
| P210 | keep away from heat/sparks/open flames/hot surfaces. No smoking |
| P261 | avoid breathing dust/fume/gas/mist/vapors/spray |
| P271 | use only outdoors or in a well-ventilated area |
| P280 | wear protective gloves/eye protection/face protection |
| P302+P352 | if on skin: Wash with plenty of water |
| 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 |
| P312 | call a poison center/doctor if you feel unwell |
| P321 | specific treatment (see on this label) |
| P362+P364 | take off contaminated clothing and wash it before reuse |
| P370+P378 | in case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish |
| P403+P235 | store in a well-ventilated place. Keep cool |
| P405 | store locked up |
| P501 | dispose of contents/container in accordance with local/regional/national/international regulations |

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2.3 Other hazards

This material is combustible, but will not ignite readily.

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

SECTION 3: Composition/information on ingredients**3.1 Substances**

| | |
|-------------------|--------------------------|
| Name of substance | N,N-dimethylacetamide-d9 |
| Identifiers | |
| CAS No | 116057-81-9 |
| Purity | ≥97 % |
| Molecular formula | C4D9NO |
| Molar mass | 96.2 g/mol |

SECTION 4: First-aid measures**4.1 Description of first-aid measures**

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

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SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

Store in a dry place.

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

- Ventilation requirements

Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted. Use local and general ventilation. Ground/bond container and receiving equipment.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | | | | |
|--|-------------------|----------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|---------------|
| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
| US | dimethylacetamide | 127-19-5 | PEL (CA) | 10 | 35 | | | | | | Cal/ OSHA PEL |
| US | dimethylacetamide | 127-19-5 | REL | 10 (10 h) | 35 (10 h) | | | | | | NIOSH REL |

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| Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | | | | |
|--|-------------------|----------|------------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|-------------------------|
| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
| US | dimethylacetamide | 127-19-5 | PEL | 10 | 35 | | | | | | 29 CFR 1910.1000 |
| US | dimethylacetamide | 127-19-5 | TLV [®] | 10 | | | | | | H | ACGIH [®] 2022 |

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur
H absorbed through the skin
STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours
time-weighted average (unless otherwise specified)

| Biological limit values | | | | | | |
|-------------------------|-----------------------|-------------------|----------|------------------|---------|-------------------------|
| Country | Name of agent | Parameter | Notation | Identifier | Value | Source |
| US | N,N-dimethylacetamide | N-methylacetamide | crea | BEI [®] | 30 mg/g | ACGIH [®] 2022 |

Notation

crea creatinine

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Type of material

Nitrile
IIR: isobutene-isoprene (butyl) rubber

- Breakthrough times of the glove material

>30 minutes (permeation: level 2)

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

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Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|----------------|-----------------------|
| Physical state | liquid |
| Color | colorless |
| Particle | not relevant (liquid) |
| Odor | characteristic |

Other safety parameters

| | |
|---|---------------------------------|
| pH (value) | not determined |
| Melting point/freezing point | -20 °C |
| Initial boiling point and boiling range | 165 – 167 °C |
| Flash point | 64 °C at 1,013 hPa (closed cup) |
| Evaporation rate | not determined |
| Flammability (solid, gas) | not relevant, (fluid) |

Explosive limits

| | |
|-------------------------------|-----------------------------------|
| - Lower explosion limit (LEL) | 1.8 vol% |
| - Upper explosion limit (UEL) | 11.5 vol% |
| Vapor pressure | 2 hPa at 21.7 °C |
| Density | 1.03 g/cm ³ |
| Vapor density | this information is not available |

Solubility(ies)

| | |
|--------------------|---------------------|
| - Water solubility | >1,000 g/l at 20 °C |
|--------------------|---------------------|

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Partition coefficient

| | |
|---------------------------------------|----------------------------|
| - n-octanol/water (log KOW) | -0.77 (25 °C) (ECHA) |
| - Soil organic carbon/water (log KOC) | 1.46 (ECHA) |
| Auto-ignition temperature | 345 °C at 1,011 hPa (ECHA) |

Viscosity

| | |
|-----------------------|-----------------------------------|
| - Kinematic viscosity | 0.893 mm ² /s at 25 °C |
| - Dynamic viscosity | 0.92 mPa s at 25 °C |
| Explosive properties | none |
| Oxidizing properties | none |

9.2 Other information

| | |
|--|--|
| Temperature class (USA, acc. to NEC 500) | T2 (maximum permissible surface temperature on the equipment: 300°C) |
|--|--|

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". It's a reactive substance. The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

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

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

10.5 Incompatible materials

Oxidizers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Harmful in contact with skin. Harmful if inhaled.

- Acute toxicity estimate (ATE)

Dermal 1,100 mg/kg
Inhalation: vapor 11 mg/l/4h

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Suspected of causing cancer.

| IARC Monographs on the Evaluation of Carcinogenic Risks to Humans | | | |
|---|----------|----------------|--------|
| Name of substance | CAS No | Classification | Number |
| N,N-dimethylacetamide-d9 | 127-19-5 | 2B | |

Legend

2B Possibly carcinogenic to humans

Reproductive toxicity

May damage the unborn child.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

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SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

| Process of degradability | | |
|--------------------------|------------------|------|
| Process | Degradation rate | Time |
| oxygen depletion | 8.7 % | 1 d |

12.3 Bioaccumulative potential

Data are not available.

| | |
|---------------------------|----------------------|
| n-octanol/water (log KOW) | -0.77 (25 °C) (ECHA) |
|---------------------------|----------------------|

12.4 Mobility in soil

| | |
|--|---------------------------------------|
| Henry's law constant | 0.001 Pa m ³ /mol at 25 °C |
| The Organic Carbon normalised adsorption coefficient | 1.46 (ECHA) |

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

Not listed.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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SECTION 14: Transport information

- | | |
|--|---|
| 14.1 UN number | not subject to transport regulations |
| 14.2 UN proper shipping name | not relevant |
| 14.3 Transport hazard class(es) | not assigned |
| 14.4 Packing group | not assigned |
| 14.5 Environmental hazards | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 Special precautions for user There is no additional information. | |
| 14.7 Transport in bulk according to IMO instruments The cargo is not intended to be carried in bulk. | |

Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Not subject to transport regulations.

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA) substance is listed as "ACTIVE"

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

not listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

not listed

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

not listed

Clean Air Act

not listed

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Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

| Name of substance | CAS No | Functionality | Authoritative Lists |
|--------------------------|----------|---------------|--|
| N,N-dimethylacetamide-d9 | 127-19-5 | | EC Annex VI CMRs - Cat. 1B IARC Carcinogens - 2B Prop 65 |

- Toxic or Hazardous Substance List (MA-TURA) not listed

- Hazardous Substances List (MN-ERTK)

| Name of substance | CAS No | References | Remarks |
|--------------------------|----------|------------|---------|
| N,N-dimethylacetamide-d9 | 127-19-5 | A, O | skin |

Legend

A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division
skin If a potential for absorption from skin contact merits special consideration, the word "skin" follows the substance name.

- Hazardous Substance List (NJ-RTK)

| Name of substance | CAS No | Remarks | Classifications |
|--------------------------|----------|---------|-----------------|
| N,N-dimethylacetamide-d9 | 127-19-5 | | F2 |

Legend

F2 Flammable - Second Degree

- Hazardous Substance List (Chapter 323) (PA-RTK)

| Name acc. to inventory | CAS No | Classification |
|--------------------------|----------|----------------|
| ACETAMIDE, N,N-DIMETHYL- | 127-19-5 | |

- Hazardous Substance List (RI-RTK)

| Name of substance | CAS No | References |
|--------------------------|----------|------------|
| N,N-dimethylacetamide-d9 | 127-19-5 | T |

Legend

T Toxicity (ACGIH®)

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

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Proposition 65 List of chemicals

| Name acc. to inventory | CAS No | Remarks | Type of the toxicity |
|------------------------|----------|---------|----------------------|
| N,N-dimethylacetamide | 127-19-5 | | developmental, male |
| N,N-dimethylacetamide | 127-19-5 | | cancer |

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category | Rating | Description |
|---------------------|--------|--|
| Chronic | * | chronic (long-term) health effects may result from repeated overexposure |
| Health | 2 | temporary or minor injury may occur |
| Flammability | 2 | material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur |
| Physical hazard | 0 | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | - | |

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

| Category | Degree of hazard | Description |
|----------------|------------------|--|
| Flammability | 2 | material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur |
| Health | 1 | material that, under emergency conditions, can cause significant irritation |
| Instability | 0 | material that is normally stable, even under fire conditions |
| Special hazard | | |

National inventories

| Country | Inventory | Status |
|---------|------------|---------------------|
| EU | REACH Reg. | substance is listed |
| US | TSCA | substance is listed |

Legend

REACH Reg. REACH registered substances
TSCA Toxic Substance Control Act

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

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SECTION 16: Other information, including date of preparation or last revision**Key literature references and sources for data**

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|-------|--------------------------------|
| H227 | Combustible liquid. |
| H312 | Harmful in contact with skin. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H351 | Suspected of causing cancer. |
| H360D | May damage the unborn child. |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.