

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)
Classifications according to Regulation (EC) No 1272/2008.
Printdate 24 Apr 2024

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

1.1. Product name:

N,N-Dimethylacetamide

1.1. Catalog No.:

682756

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical
uses: R&D

1.3. Uses advised against:

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Am Wieseneck 7

04451 Cunnersdorf
Deutschland

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1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36
This number is only available during office hours.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
· Classification according to Regulation (EC) No 1272/2008
GHS08 health hazard
Repr. 1B H360D May damage the unborn child.
GHS07
Acute Tox. 4 H312 Harmful in contact with skin.
Acute Tox. 4 H332 Harmful if inhaled.

2.2. Label elements

2.2.1. Pictogram



2.2.2.

2.2 Label elements

- Labeling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

- Signal word Danger

- Hazard statements

H312+H332 Harmful in contact with skin or if inhaled.

H360D May damage the unborn child.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

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

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Additional information:

Restricted to professional users.

- 2.3 Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterisation: Substances

- CAS No. Description

127-19-5 N,N-dimethylacetamide

- Identification number(s) None

- EC number: 204-826-4

- Index number: 616-011-00-4

- RTECS: AB 7700000

- Additional information: For the wording of the listed hazard phrases refer to section 16.

3.1.1. Formula

C₄H₉NO

3.1.2. Molecular Weight (g/mol)

87.12

3.1.3. CAS-No.

127-19-5

4. FIRST AID MEASURES

- 4.1 Description of first aid measures
- General information:
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may occur even after several hours; therefore medical observation for at least 48 hours after the accident is recommended.
- After inhalation:
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient in recovery position for transport.
Seek medical treatment.
- After skin contact:
Immediately wash with water and soap and rinse thoroughly.
Seek medical treatment.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Rinse mouth. Do not induce vomiting.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5. FIRE-FIGHTING MEASURES

- 5.1 Extinguishing media
- Suitable extinguishing agents:
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in case of fire.
- 5.3 Advice for firefighters
- Protective equipment:
Mouth respiratory protective device.
Wear self-contained respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- 6.2 Environmental precautions:
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
- 6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling
Ensure good ventilation/extraction at the workplace.
Store in cool, dry place in tightly closed receptacles.
Open and handle receptacle with care.
Prevent formation of aerosols.
- Information about fire - and explosion protection: Keep respiratory protective device available.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
 - Requirements to be met by storerooms and receptacles:
Please refer to the manufacturers certificate for specific storage and transport temperature conditions.
 - Store only in the original receptacle.
 - Keep container in a well-ventilated place. Keep away from sources of ignition and heat.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters
 - Ingredients with limit values that require monitoring at the workplace:
127-19-5 N,N-dimethylacetamide
WEL Short-term value: 72 mg/m³, 20 ppm
Long-term value: 36 mg/m³, 10 ppm
Sk, BMGV
 - Ingredients with biological limit values:
127-19-5 N,N-dimethylacetamide
BMGV 100 mmol/mol creatinine
Medium: urine
Sampling time: post shift
Parameter: N-methylacetamide
Additional information: Lists used were valid at the time of SDS preparation.
- 8.2 Exposure controls
 - Personal protective equipment:
 - General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.
 - Respiratory protection:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
 - Protection of hands:
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Material of gloves Butyl rubber, BR: protective gloves
 - Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
 - Eye protection: Safety glasses

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Information on basic physical and chemical properties

- General Information
- Appearance:
Form: Liquid
Colour: Yellowish
- Odour: Amine-like
- Odour threshold: Not determined.
- pH-value: 4
- Change in condition
- Melting point/freezing point: -20 °C
- Initial boiling point and boiling range: 165.5 °C
- Flash point: 66 °C
- Flammability (solid, gas): Not determined.
- Ignition temperature: 400 °C
- Decomposition temperature: Not determined.
- Auto-ignition temperature: Not determined.
- Explosive properties: Not determined.
- Explosion limits:
Lower: 1.8 Vol %
Upper: 11.5 Vol %
- Vapour pressure at 20 °C: 3.3 hPa
- Density at 20 °C: 0.9434 g/cm³
- Relative density Not determined.
- Vapour density Not determined.
- Evaporation rate Not determined.
- Solubility in / Miscibility with
water: Fully miscible.
- Partition coefficient: n-octanol/water: - 0.77 LogP
- Viscosity:
Dynamic at 20 °C: 1.02 mPas
Kinematic: Not determined.
- 9.2 Other information No further relevant information available.

10. STABILITY AND REACTIVITY

- 10.1 Reactivity Stable under normal conditions.
- 10.2 Chemical stability Stable under normal conditions.
- Thermal decomposition / conditions to be avoided:
Formation of toxic gases is possible during heating or in case of fire.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid
Sources of ignition
Heat.
- 10.5 Incompatible materials: Strong oxidizing agents.
- 10.6 Hazardous decomposition products:
Formation of toxic gases is possible during heating or in case of fire.

11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects
- Acute toxicity
Harmful in contact with skin or if inhaled.
- LD/LC50 values relevant for classification:
Oral (LD50) 4300 mg/kg (rat)
Dermal LD50 2240 mg/kg (rabbit)
LD 50 (Intraperitoneal) 2750 mg/kg (rat)
LD 50 (Intravenous) 2640 mg/kg (rat)
- Primary irritant effect:
· Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Causes eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Repr. 1B

- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity

May damage the unborn child.

- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

- Aquatic toxicity:

EC50/48 h > 500 mg/l (daphnia)

EC50/72h > 500 mg/l (Algae)

LC50/96 h > 500 mg/l (fish)

- 12.2 Persistence and degradability

Easily biodegradable

Biodegradation: 70 %/ 28 d

- 12.3 Bioaccumulative potential No further relevant information available.

- 12.4 Mobility in soil No further relevant information available.

- Additional ecological information:

- General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product to reach ground water, water course or sewage system.

- 12.5 Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

- 12.6 Other adverse effects No further relevant information available.

13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods

- Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- European waste catalogue

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

- Uncleaned packaging:

- Recommendation: Dispose of in accordance with national regulations.

- Recommended cleansing agents: Water, if necessary together with cleansing agents.

14. TRANSPORT INFORMATION

- 14.1 UN-Number

- ADR, ADN, IMDG, IATA Not applicable

- ADR, ADN, IMDG, IATA Not applicable

- 14.3 Transport hazard class(es)

- ADR, ADN, IMDG, IATA

- Class Not applicable

- 14.4 Packing group
- ADR, IMDG, IATA Not applicable
- 14.5 Environmental hazards:
- Marine pollutant: No
- 14.6 Special precautions for user Not applicable.
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.
- UN "Model Regulation": Not applicable

15. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Philippines Inventory of Chemicals and Chemical Substances Substance is listed.
- Australian Inventory of Chemical Substances Substance is listed.
- Standard for the Uniform Scheduling of Medicines and Poisons S5, S6
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I Substance is not listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 30
- National regulations:
- Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57
127-19-5 N,N-dimethylacetamide
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!