

Printing date 05/20/2019

Reviewed on 05/20/2019

1 Identification

- **Product identifier**
- **Trade name:** *N,N-Dimethylacetamide*
- **Article number:** 150928
- **CAS Number:**
127-19-5
- **EC number:**
204-826-4
- **Molecular Formula** C₄ H₉ N O
- **Molecular Weight** 87.12
- **Application of the substance / the mixture** For Research Use Only
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
MP Biomedicals, LLC
29525 Fountain Parkway
Solon, OH 44139
United States
www.mpbio.com
- **Information department:** Quality Control Department
- **Emergency telephone number:** CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2 Hazard Identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Reproductive Toxicity - Category 1B H360 May damage fertility or the unborn child.



GHS07

Acute Toxicity (Dermal) – Category 4 H312 Harmful in contact with skin.

Acute Toxicity (Inhalation) - Category 4 H332 Harmful if inhaled.

Eye Irritation - Category 2A H319 Causes serious eye irritation.

Flammable Liquids - Category 4 H227 Combustible liquid.

- **Label elements**

- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS07



GHS08

- **Signal word** *Danger*

- **Hazard-determining components of labeling:**

N,N-Dimethylacetamide

- **Hazard statements**

Combustible liquid.

(Contd. on page 2)

CA

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/20/2019

Reviewed on 05/20/2019

Trade name: N,N-Dimethylacetamide

(Contd. of page 1)

Harmful in contact with skin or if inhaled.

Causes serious eye irritation.

May damage fertility or the unborn child.

· Precautionary statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

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

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

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

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

If on skin: Wash with plenty of water.

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

Call a poison center/doctor if you feel unwell.

Specific measures (see on this label).

If eye irritation persists: Get medical advice/attention.

Take off immediately all contaminated clothing.

Wash contaminated clothing before reuse.

In case of fire: Use for extinction: CO2, powder or water spray.

Store in a well-ventilated place.

Store locked up.

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

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 2

Fire = 2

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *2

Fire = 2

Reactivity = 0

3 Composition/Information on ingredients

· Chemical characterization: Substances

· CAS No. Description

127-19-5 N,N-Dimethylacetamide

· Identification number(s)

· EC number: 204-826-4

CA

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/20/2019

Reviewed on 05/20/2019

Trade name: *N,N-Dimethylacetamide*

(Contd. of page 2)

4 First-aid Measures

- **Description of first aid measures**
- **General information:**
Consult your Doctor. Show the safety data sheet to the Doctor. Away from the dangerous area.
- **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. If breathed in, supply fresh air. If not breathing, give artificial respiration. Consult a Doctor.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Pick up mechanically, dispose contaminated material as waste according to Section 13.
Ensure adequate ventilation.
- **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

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace. Avoid direct contact with skin and eyes.
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:** 15-30°C

(Contd. on page 4)

CA

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/20/2019

Reviewed on 05/20/2019

Trade name: *N,N-Dimethylacetamide*

(Contd. of page 3)

- **Requirements to be met by storerooms and receptacles:** *No special requirements.*
- **Further information about storage conditions:** *Desiccate.*
- **Specific end use(s)** *No further relevant information available.*

8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** *No further data; see Section 7.*
- **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

127-19-5 *N,N-Dimethylacetamide*

EL	Long-term value: 10 ppm Skin; R
EV	Long-term value: 36 mg/m ³ , 10 ppm Skin

- **Additional information:** *The lists that were valid during the creation were used as basis.*
- **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.
Avoid contact with the eyes and skin.*
- **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.*

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **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:**



Tightly sealed goggles

CA

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/20/2019

Reviewed on 05/20/2019

Trade name: *N,N-Dimethylacetamide*

(Contd. of page 4)

9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Liquid
Color:	Colorless
· Odor:	Indeterminate
· Odor threshold:	Not determined.

- **pH-value:** Not determined.

- **Change in condition**

- Boiling point/Boiling range: Undetermined.

- **Flash point:** ≤93 °C

- **Flammability (solid, gaseous):** Not applicable.

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Not determined.

- **Danger of explosion:** Not determined.

- **Explosion limits:**

Lower:	Not Applicable
Upper:	Not Applicable

- **Vapor pressure:** Not Applicable

· Density:	Not Applicable
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.

- **Solubility in / Miscibility with Water:** Not Determined
Not determined.
Insoluble.

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**

Dynamic:	Not determined.
Kinematic:	Not determined.

- **Other information** No further relevant information available.

10 Stability and Reactivity

- **Reactivity** No further relevant information available.

- **Chemical stability**

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

- **Possibility of hazardous reactions** No dangerous reactions known.

- **Conditions to avoid**

No further relevant information available.

Avoid contact with acids. Contact liberates a toxic gas.

- **Incompatible materials:** No further relevant information available.

(Contd. on page 6)

CA

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/20/2019

Reviewed on 05/20/2019

Trade name: *N,N-Dimethylacetamide*

(Contd. of page 5)

· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

· **Information on toxicological effects**· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:****ATE (Acute Toxicity Estimate)**

Dermal	LD50	1,100 mg/kg
Inhalative	LC50/4 h	11 mg/L

127-19-5 N,N-Dimethylacetamide

Dermal	LD50	1,100 mg/kg (ATE)
Inhalative	LC50/4 h	11 mg/L (ATE)

· **Primary irritant effect:**· **on the skin:** No irritant effect.· **on the eye:** Irritating effect.· **Sensitization:** No sensitizing effects known.· **Additional toxicological information:**· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

Substance is not listed.

· **NTP (National Toxicology Program)**

Substance is not listed.

12 Ecological Information

· **Toxicity**· **Aquatic toxicity:** No further relevant information available.· **Persistence and degradability** No further relevant information available.· **Behavior in environmental systems:**· **Bioaccumulative potential** No further relevant information available.· **Mobility in soil** No further relevant information available.· **Additional ecological information:**· **General notes:**

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

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **Other adverse effects** No further relevant information available.

13 Disposal Considerations

· **Waste treatment methods**· **Recommendation:**

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

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/20/2019

Reviewed on 05/20/2019

Trade name: *N,N-Dimethylacetamide*

(Contd. of page 6)

- **Uncleaned packagings:**
- **Recommendation:** Discard must be made according to official regulations.

14 Transport Information

- | | |
|--|-----------------|
| · UN-Number
· DOT/TDG, ADR, IMDG, IATA | Not regulated |
| · UN proper shipping name
· DOT/TDG, ADR, IMDG, IATA | Not regulated |
| · Transport hazard class(es)
· DOT, ADR, IMDG, IATA
· Class | Not regulated |
| · Packing group
· DOT/TDG, ADR, IMDG, IATA | Not regulated |
| · Environmental hazards: | Not applicable. |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | Not regulated |

15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Sara

- **Section 355 (extremely hazardous substances):**

Substance is not listed.

- **Section 313 (Specific toxic chemical listings):**

Substance is not listed.

- **TSCA (Toxic Substances Control Act):**

ACTIVE

- **Canadian substance listings:**

- **Canadian Domestic Substances List (DSL)**

Substance is not listed.

- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS07 GHS08

- **Signal word** *Danger*

- **Hazard-determining components of labeling:**

N,N-Dimethylacetamide

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/20/2019

Reviewed on 05/20/2019

Trade name: N,N-Dimethylacetamide

(Contd. of page 7)

· **Hazard statements**

Combustible liquid.
Harmful in contact with skin or if inhaled.
Causes serious eye irritation.
May damage fertility or the unborn child.

· **Precautionary statements**

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin: Wash with plenty of water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Call a poison center/doctor if you feel unwell.
Specific measures (see on this label).
If eye irritation persists: Get medical advice/attention.
Take off immediately all contaminated clothing.
Wash contaminated clothing before reuse.
In case of fire: Use for extinction: CO₂, powder or water spray.
Store in a well-ventilated place.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Quality Control Dept.
- **Date of the latest revision of the safety data sheet** 05/20/2019 / -
- **Abbreviations and acronyms:**
 - IMDG: International Maritime Code for Dangerous Goods
 - DOT: US Department of Transportation
 - IATA: International Air Transport Association
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - NFPA: National Fire Protection Association (USA)
 - HMIS: Hazardous Materials Identification System (USA)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative