

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### N,N-Dimethylacetamid mind. 99,99 % GC Headspace grade

Revision date: 27.03.2023

Product code: 28125

Page 1 of 11

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

N,N-Dimethylacetamid mind. 99,99 % GC Headspace grade

REACH Registration Number: 01-2119459339-27-XXXX  
CAS No: 127-19-5  
Index No: 616-011-00-4  
EC No: 204-826-4

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

#### Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

### 1.3. Details of the supplier of the safety data sheet

Company name: AnalytiChem GmbH  
Street: Stempelstraße 6  
Place: D-47167 Duisburg  
Telephone: 0203/5194-0  
e-mail: info@analytichem.de  
Contact person: Abteilung Produktsicherheit  
e-mail: produktsicherheit@analytichem.de  
Internet: www.analytichem.de  
Responsible Department: Abteilung Produktsicherheit  
Telefax: 0203/5194-290  
Telephone: 0203/5194-107/117

### 1.4. Emergency telephone number:

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

### Further Information

No data available

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Repr. 1B; H360D  
Acute Tox. 4; H332  
Acute Tox. 4; H312  
Eye Irrit. 2; H319

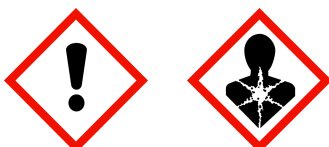
Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### Regulation (EC) No 1272/2008

Signal word: Danger

Pictograms:



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### N,N-Dimethylacetamid mind. 99,99 % GC Headspace grade

Revision date: 27.03.2023

Product code: 28125

Page 2 of 11

#### Hazard statements

H312+H332 Harmful in contact with skin or if inhaled.  
H319 Causes serious eye irritation.  
H360D May damage the unborn child.

#### Precautionary statements

P201 Obtain special instructions before use.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.

#### Special labelling of certain mixtures

Restricted to professional users.

#### 2.3. Other hazards

No data available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Sum formula: C<sub>4</sub>H<sub>9</sub>NO  
Molecular weight: 87,12 g/mol

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
127-19-5	N,N-dimethylacetamide			100 %
	204-826-4	616-011-00-4	01-2119459339-27-XXXX	
	Repr. 1B, Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2; H360D H332 H312 H319			

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
127-19-5	204-826-4	N,N-dimethylacetamide	100 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = < 940 mg/kg; oral: LD50 = ca. 5830 mg/kg		

#### Further Information

SVHC substance.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Self-protection of the first aider

##### After inhalation

Provide fresh air.  
If breathing is irregular or stopped, administer artificial respiration.  
Call a physician immediately.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### **N,N-Dimethylacetamid mind. 99,99 % GC Headspace grade**

Revision date: 27.03.2023

Product code: 28125

Page 3 of 11

#### **After contact with skin**

Wash immediately with: Water  
Take off immediately all contaminated clothing and wash it before reuse.  
Call a physician immediately.

#### **After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.  
Remove contact lenses, if present and easy to do. Continue rinsing.

#### **After ingestion**

Rinse mouth immediately and drink plenty of water.  
Water, to which activated charcoal may be added  
Call a physician immediately.

#### **4.2. Most important symptoms and effects, both acute and delayed**

Irritant  
Cough  
Dyspnoea  
Gastrointestinal complaints  
Inebriation  
Narcotic effects

#### **4.3. Indication of any immediate medical attention and special treatment needed**

Give sodium sulfate as laxative (1 tablespoon in 1 glass of water).

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Foam  
Carbon dioxide (CO<sub>2</sub>)  
Extinguishing powder

#### **Unsuitable extinguishing media**

no restriction

### **5.2. Special hazards arising from the substance or mixture**

Combustible liquids  
Hazardous combustion products  
In case of fire may be liberated:  
Nitrogen oxides (NO<sub>x</sub>)  
In case of warming:  
Vapours are heavier than air, spread along floors and form explosive mixtures with air.  
Heating causes rise in pressure with risk of bursting.

### **5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.  
In case of fire and/or explosion do not breathe fumes.  
Avoid contact with skin, eyes and clothes.

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.  
Move undamaged containers from immediate hazard area if it can be done safely.  
Use water spray jet to protect personnel and to cool endangered containers.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **For non-emergency personnel**

Provide adequate ventilation.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### **N,N-Dimethylacetamid mind. 99,99 % GC Headspace grade**

Revision date: 27.03.2023

Product code: 28125

Page 4 of 11

Use personal protection equipment.  
Avoid contact with skin, eyes and clothes.  
Remove persons to safety.  
Emergency procedures  
Do not breathe dust/fume/gas/mist/vapours/spray.

#### **For emergency responders**

Precautionary statements For emergency responders : Personal protection equipment: see section 8

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

#### **6.3. Methods and material for containment and cleaning up**

##### **For containment**

Cover drains.  
Prevent spread over a wide area (e.g. by containment or oil barriers).  
Collect in closed and suitable containers for disposal.  
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

##### **For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.

##### **Other information**

Provide adequate ventilation.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### **6.4. Reference to other sections**

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Avoid exposure - obtain special instructions before use.  
Read label before use. Handle and open container with care.  
When using do not eat, drink, smoke, sniff. Keep container tightly closed.  
Use personal protection equipment. Use extractor hood (laboratory).  
Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

#### **Advice on protection against fire and explosion**

Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### **Advice on general occupational hygiene**

Keep away from food, drink and animal feedingstuffs.

#### **Further information on handling**

Take off immediately all contaminated clothing and wash it before reuse.  
Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.  
Store in a place accessible by authorized persons only.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Requirements for storage rooms and vessels**

Keep in a cool, well-ventilated place.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### **Further information on storage conditions**

Keep container tightly closed.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**N,N-Dimethylacetamid mind. 99,99 % GC Headspace grade**

Revision date: 27.03.2023

Product code: 28125

Page 5 of 11

Keep cool. Protect from sunlight.  
storage temperature < +30°C

**7.3. Specific end use(s)**

Laboratory chemicals

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
127-19-5	N,N'-Dimethylacetamide	10	36		TWA (8 h)	
		20	72		STEL (15 min)	

**Biological limit values**

CAS No	Substance	Parameter	Value	Test material	Sampling time
127-19-5	N,N-Dimethylacetamide	N-Methylacetamide	30 mg/g	Creatinine	End of shift at end of workweek

**DNEL/DMEL values**

CAS No	Substance	DNEL type	Exposure route	Effect	Value
127-19-5	N,N-dimethylacetamide				
		Worker DNEL, long-term	inhalation	systemic	23 mg/m <sup>3</sup>
		Worker DNEL, acute	inhalation	systemic	120 mg/m <sup>3</sup>
		Worker DNEL, long-term	dermal	systemic	11 mg/kg bw/day
		Worker DNEL, acute	dermal	systemic	42 mg/kg bw/day
		Consumer DNEL, long-term	inhalation	systemic	6 mg/m <sup>3</sup>
		Consumer DNEL, acute	inhalation	systemic	90 mg/m <sup>3</sup>
		Consumer DNEL, long-term	dermal	systemic	7 mg/kg bw/day
		Consumer DNEL, acute	dermal	systemic	7 mg/kg bw/day
		Consumer DNEL, long-term	oral	systemic	2 mg/kg bw/day
		Consumer DNEL, acute	oral	systemic	3 mg/kg bw/day

**PNEC values**

CAS No	Substance	Environmental compartment	Value
127-19-5	N,N-dimethylacetamide		
		Freshwater	0,5 mg/l
		Freshwater (intermittent releases)	5 mg/l
		Marine water	0,097 mg/l
		Freshwater sediment	2,27 mg/kg
		Marine sediment	0,438 mg/kg
		Secondary poisoning	66,7 mg/kg
		Micro-organisms in sewage treatment plants (STP)	485 mg/l
		Soil	0,15 mg/kg

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### N,N-Dimethylacetamid mind. 99,99 % GC Headspace grade

Revision date: 27.03.2023

Product code: 28125

Page 6 of 11

#### 8.2. Exposure controls

##### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

##### Individual protection measures, such as personal protective equipment

##### Eye/face protection

goggles

Face protection umbrella

##### Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: [vertrieb@kcl.de](mailto:vertrieb@kcl.de) With specification (test according to EN374):

By long-term hand contact

KCL 898 Butoject®

Butyl caoutchouc (butyl rubber) 0,7 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

KCL 898 Butoject®

Butyl caoutchouc (butyl rubber) 0,7 mm

Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

##### Skin protection

Take off immediately all contaminated clothing and wash it before reuse.

Wear fire resistant or flame retardant clothing.

Wash hands and face before breaks and after work and take a shower if necessary.

Draw up and observe skin protection programme.

##### Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Filtering device with filter or ventilator filtering device of type: A-(P3)

##### Environmental exposure controls

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	colourless
Odour:	like: Amines
Odour threshold:	No data available
Melting point/freezing point:	-20 °C
Boiling point or initial boiling point and boiling range:	165 °C
Flammability:	No data available
Lower explosion limits:	1,7 vol. %
Upper explosion limits:	11,5 vol. %
Flash point:	64 °C

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**N,N-Dimethylacetamid mind. 99,99 % GC Headspace grade**

Revision date: 27.03.2023

Product code: 28125

Page 7 of 11

Auto-ignition temperature:	400 °C
Decomposition temperature:	No data available
pH-Value (at 20 °C):	~4 (200 g/l)
Viscosity / kinematic:	No data available
Water solubility: (at 20 °C)	>1000 g/L
Solubility in other solvents	No data available
Partition coefficient n-octanol/water:	No data available
Vapour pressure: (at 20 °C)	2 hPa
Vapour pressure:	No data available
Density:	0,94 g/cm <sup>3</sup>
Bulk density:	No data available
Relative vapour density:	No data available

**9.2. Other information**

**Information with regard to physical hazard classes**

**Explosive properties**

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Sustaining combustion: No data available

**Self-ignition temperature**

Gas: No data available

**Oxidizing properties**

No data available

**Other safety characteristics**

Evaporation rate: No data available

Solvent separation test: No data available

Solid content: No data available

Sublimation point: No data available

Softening point: No data available

Pour point: No data available

Viscosity / dynamic:  
(at 20 °C) 1,02 mPa·s

Flow time: No data available

**Further Information**

No data available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

In case of warming:

Vapours may form explosive mixtures with air.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

Oxidising agent

Strong acid

aldehydes

NO<sub>3</sub>

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**N,N-Dimethylacetamid mind. 99,99 % GC Headspace grade**

Revision date: 27.03.2023

Product code: 28125

Page 8 of 11

**10.4. Conditions to avoid**

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

**10.5. Incompatible materials**

Plastic articles

**10.6. Hazardous decomposition products**

SECTION 5: Firefighting measures

**Further information**

No data available

**SECTION 11: Toxicological information**

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Toxicokinetics, metabolism and distribution**

Avoid exposure - obtain special instructions before use.

**Acute toxicity**

Harmful in contact with skin.

Harmful if inhaled.

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
127-19-5	N,N-dimethylacetamide					
	oral	LD50 mg/kg	ca. 5830	Rat	Study report (1970)	OECD Guideline 401
	dermal	LD50 mg/kg	< 940	Guinea pig	REACH Registration Dossier	
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1,5 mg/l			

**Irritation and corrosivity**

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Causes mild skin irritation.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

May damage the unborn child. (N,N-dimethylacetamide)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

Causes damage to organs.

kidneys

liver

central nervous system

**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.

**11.2. Information on other hazards**

**Further information**

Irritant



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

**N,N-Dimethylacetamid mind. 99,99 % GC Headspace grade**

Revision date: 27.03.2023

Product code: 28125

Page 9 of 11

Cough  
Dyspnoea  
Gastrointestinal complaints  
Inebriation  
Narcotic effects

**SECTION 12: Ecological information****12.1. Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
127-19-5	N,N-dimethylacetamide					
	Acute fish toxicity	LC50 > 500 mg/l	96 h	Leuciscus idus	Study report (1979)	other: German Industrial Standards DIN 3
	Acute algae toxicity	ErC50 > 500 mg/l	72 h	Desmodesmus subspicatus	Study report (1989)	other: German Industrial Standard DIN 38
	Acute crustacea toxicity	EC50 > 500 mg/l	48 h	Daphnia magna	Study report (1988)	EU Method C.2

**12.2. Persistence and degradability**

> 90 %; 28 d  
OECD 302B

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
127-19-5	N,N-dimethylacetamide	-0,77

**BCF**

CAS No	Chemical name	BCF	Species	Source
127-19-5	N,N-dimethylacetamide	3,162		Publication (2007)

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

**12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects**

Do not allow to enter into surface water or drains.

**Further information**

Avoid release to the environment.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

**N,N-Dimethylacetamid mind. 99,99 % GC Headspace grade**

Revision date: 27.03.2023

Product code: 28125

Page 10 of 11

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No dangerous good in sense of this transport regulation.

**14.7. Maritime transport in bulk according to IMO instruments**

No dangerous good in sense of this transport regulation.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Authorisations (REACH, annex XIV):

This substance has been listed as SVHC (substance of very high concern) in the Candidate List according to Article 59 of REACH.

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 30

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### N,N-Dimethylacetamid mind. 99,99 % GC Headspace grade

Revision date: 27.03.2023

Product code: 28125

Page 11 of 11

Water hazard class (D): 2 - obviously hazardous to water

#### SECTION 16: Other information

##### Changes

This data sheet contains changes from the previous version in section(s): 9.

##### Relevant H and EUH statements (number and full text)

H312	Harmful in contact with skin.
H312+H332	Harmful in contact with skin or if inhaled.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H360D	May damage the unborn child.

##### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.