

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Dimethylacetamide > 99.5 % (GC) for analysis

Revision date: 09.04.2024

Product code: 34068

Page 1 of 12

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

### 1.1. Product identifier

Dimethylacetamide > 99.5 % (GC) for analysis

Substance name: N,N-dimethylacetamide  
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  
ACD  
Street: Stempelstraße 6  
Place: D-47167 Duisburg  
Telephone: 0203/5194-0  
Telefax: 0203/5194-290  
E-mail: info@analytichem.de  
Contact person: Abteilung Produktsicherheit  
Telephone: 0203/5194-107/117  
E-mail: produktsicherheit@analytichem.de  
Internet: www.analytichem.de  
Responsible Department: Abteilung Produktsicherheit

### 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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Dimethylacetamide > 99.5 % (GC) for analysis**

Revision date: 09.04.2024

Product code: 34068

Page 2 of 12

**Pictograms:**



**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.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
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.

**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

**Relevant ingredients**

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.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Dimethylacetamide > 99.5 % (GC) for analysis

Revision date: 09.04.2024

Product code: 34068

Page 3 of 12

Call a physician immediately.

#### 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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Dimethylacetamide > 99.5 % (GC) for analysis

Revision date: 09.04.2024

Product code: 34068

Page 4 of 12

#### General advice

Do not breathe vapour/aerosol.

#### For non-emergency personnel

Provide adequate ventilation.

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Dimethylacetamide > 99.5 % (GC) for analysis**

Revision date: 09.04.2024

Product code: 34068

Page 5 of 12

**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.

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	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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Dimethylacetamide > 99.5 % (GC) for analysis**

Revision date: 09.04.2024

Product code: 34068

Page 6 of 12

**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

**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

Trade name/designation KCL 897 Butoject®

Suitable material: Butyl caoutchouc (butyl rubber) 0,3 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation KCL 897 Butoject®

Suitable material: Butyl caoutchouc (butyl rubber) 0,3 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)

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Dimethylacetamide > 99.5 % (GC) for analysis

Revision date: 09.04.2024

Product code: 34068

Page 7 of 12

#### Thermal hazards

No data available

#### 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
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
Dissolution rate:	No data available
Partition coefficient n-octanol/water:	No data available
Dispersion stability:	No data available
Vapour pressure: (at 20 °C)	2 hPa
Vapour pressure:	No data available
Density:	0,94 g/cm <sup>3</sup>
Relative density:	No data available
Bulk density:	No data available
Relative vapour density:	No data available
Particle characteristics:	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

Solid: No data available

Gas: No data available

##### Oxidizing properties

No data available

#### Other safety characteristics

Evaporation rate: No data available

Solvent separation test: No data available

Solvent content: No data available

Solid content: No data available

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Dimethylacetamide > 99.5 % (GC) for analysis**

Revision date: 09.04.2024

Product code: 34068

Page 8 of 12

Sublimation point: No data available  
 Softening point: No data available  
 Pour point: No data available  
 Viscosity / dynamic: 1,02 mPa·s  
 (at 20 °C)  
 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  
 NO3

**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		



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Dimethylacetamide > 99.5 % (GC) for analysis

Revision date: 09.04.2024

Product code: 34068

Page 9 of 12

#### **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.

#### **Information on likely routes of exposure**

No data available

#### **Specific effects in experiment on an animal**

No data available

#### **Additional information on tests**

No data available

#### **Practical experience**

No data available

### **11.2. Information on other hazards**

#### **Endocrine disrupting properties**

No data available

#### **Other information**

No data available

#### **Further information**

Irritant

Cough

Dyspnoea

Gastrointestinal complaints

Inebriation

Narcotic effects

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Dimethylacetamide > 99.5 % (GC) for analysis**

Revision date: 09.04.2024

Product code: 34068

Page 10 of 12

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.

**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.  
Do not empty into drains.

**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)**

**14.1. UN number or ID number:**

No dangerous good in sense of this transport regulation.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Dimethylacetamide > 99.5 % (GC) for analysis

Revision date: 09.04.2024

Product code: 34068

Page 11 of 12

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** No dangerous good in sense of this transport regulation.

#### Inland waterways transport (ADN)

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** No dangerous good in sense of this transport regulation.

#### Marine transport (IMDG)

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** No dangerous good in sense of this transport regulation.

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

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** 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 Directive

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.

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): 12.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Dimethylacetamide > 99.5 % (GC) for analysis

Revision date: 09.04.2024

Product code: 34068

Page 12 of 12

#### Abbreviations and acronyms

Acute Tox: Acute toxicity

Eye Irrit: Eye irritation

Repr: Reproductive toxicity

#### 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

Provide appropriate information, instructions and training to users

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.