

according to Regulation (EC) No 1907/2006

N,N-Dimethylacetamide > 99 % for synthesis

Revision date: 19.07.2023

Product code: 10138

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

1.1. Product identifier

N,N-Dimethylacetamide > 99 % for synthesis

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).

.3. Details of the supplier of the safety data sheet
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1.3. Details of the supplier of the saf	<u>ety data sheet</u>	
Company name:	AnalytiChem GmbH	
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	For Hazardous Materials [or Dangerous (Goods] Incidents Spill, Leak, Fire,
number:	Exposure, or Accident Call CHEMTREC 1-800-424-9300 Outside USA and Canac 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:

Pictograms:





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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:	C4H9NO
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, A	cute Tox. 4, Eye Irrit. 2; H360D H33	32 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. L	imits, 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.



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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 (CO2) 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 (NOx) 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.





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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.



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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/m³	fib/cm³	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		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/m³
Worker DNEL	, acute	inhalation	systemic	120 mg/m ³
Worker DNEL	, long-term	dermal	systemic	11 mg/kg bw/day
Worker DNEL	, acute	dermal	systemic	42 mg/kg bw/day
Consumer DN	IEL, long-term	inhalation	systemic	6 mg/m³
Consumer DN	IEL, acute	inhalation	systemic	90 mg/m³
Consumer DN	IEL, long-term	dermal	systemic	7 mg/kg bw/day
Consumer DN	IEL, acute	dermal	systemic	7 mg/kg bw/day
Consumer DN	IEL, long-term	oral	systemic	2 mg/kg bw/day
Consumer DN	IEL, acute	oral	systemic	3 mg/kg bw/day

PNEC values

CAS No	Substance		
Environment	al compartment	Value	
127-19-5	N,N-dimethylacetamide		
Freshwater		0,5 mg/l	
Freshwater (intermittent releases)	5 mg/l	
Marine wate	ſ	0,097 mg/l	
Freshwater s	sediment	2,27 mg/kg	
Marine sedir	nent	0,438 mg/kg	
Secondary p	oisoning	66,7 mg/kg	
Micro-organi	sms in sewage treatment plants (STP)	485 mg/l	
Soil		0,15 mg/kg	



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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 With specification (test according to EN374):

By long-term hand contact

Trade name/designation KCL 898 Butoject® Suitable material: Butyl caoutchouc (butyl rubber) 0,7 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation KCL 898 Butoject® Suitable material: 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).

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		165 °C
boiling range:		
Flammability:		No data available
Lower explosion limits:		1,7 vol. %
Upper explosion limits:		11,5 vol. %
Flash point:		64 °C



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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:	>1000 g/L	
(at 20 °C)		
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/cm³	
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 class Explosive properties Vapours are heavier than air, spread along flo Sustaining combustion: Self-ignition temperature Gas: 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	
Sublimation point:	No data available	
Softening point:	No data available No data available	
Pour point:	No data available	
Viscosity / dynamic:	1,02 mPa·s	
(at 20 °C)	1,02 IIIFa'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



an analyti**chem** brand

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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

Toxicocinetics, 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.



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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

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

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.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
127-19-5	N,N-dimethylacetamide						
	Acute fish toxicity	LC50 mg/l	> 500	96 h	Leuciscus idus	Study report (1979)	other: German Industrial Standards DIN 3
	Acute algae toxicity	ErC50 mg/l	> 500	1	Desmodesmus subspicatus	Study report (1989)	other: German Industrial Standard DIN 38
	Acute crustacea toxicity	EC50 mg/l	> 500	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	7-19-5 N,N-dimethylacetamide		-0,77		
BCF					
CAS No	Chemical name	BCF	Species	Source	
127-19-5	N,N-dimethylacetamide	3,162		Publication	(2007)



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<u>12.4. Mobility in soil</u>

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.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

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SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Inland waterways transport (ADN)14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):

14.4. Packing group:

Marine transport (IMDG)

14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:

Air transport (ICAO-TI/IATA-DGR) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u>

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

No

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.



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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).
Resultations on use		anner	// v II j.

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. 2 - obviously hazardous to water

Water hazard class (D):

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 11,12.

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

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.