

Creation Date Oct-2013

Revision Date Oct-2018

Revision Number 2

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identification

<b>Product Description:</b>	<b><u>N,N-Dimethylacetamide</u></b>
<b>Product Grade:</b>	SQ, ER, HPLC, GCHS
<b>Cat No. :</b>	Q12365, Q12367, Q123SH, Q18305, Q43496, Q49205, Q49206, Q1236C
<b>CAS-No</b>	127-19-5
<b>EC-No.</b>	204-826-4
<b>Molecular Formula</b>	C4 H9 N O
<b>Reach Registration Number</b>	01-2119459339-27

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

<b>Recommended Use</b>	Laboratory chemicals.
<b>Sector of use</b>	SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
<b>Product category</b>	PC21 - Laboratory chemicals
<b>Process categories</b>	PROC15 - Use as a laboratory reagent
<b>Environmental release category</b>	ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates)
<b>Uses advised against</b>	No Information available

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

<b>Company</b>	Thermo Fisher Scientific India Pvt. Ltd 403-404, B-wing, Delphi, Hiranandani Business Park, Powai, Mumbai 400076, INDIA.
<b>E-mail address</b>	<a href="mailto:laboratorysolutions@thermofisher.com">laboratorysolutions@thermofisher.com</a>

### 1.4. Emergency telephone number

India Toll Free: 18 00 22 22 30  
Chemtrec US: (800)424-9300  
Chemtrec EU: 001(202)483-7616

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

#### CLP Classification - Regulation (EC) No 1272/2008

##### Physical hazards

Based on available data, the classification criteria are not met

##### Health hazards

Acute dermal toxicity	Category 4 (H312)
Acute Inhalation Toxicity - Vapors	Category 4 (H332)
Serious Eye Damage/Eye Irritation	Category 2 (H319)
Reproductive Toxicity	Category 1B (H360D)

##### Environmental hazards

# SAFETY DATA SHEET

N,N-Dimethylacetamide

Revision Date Oct-2018

Based on available data, the classification criteria are not met

## 2.2. Label elements



Signal Word

Danger

### Hazard Statements

H312 - Harmful in contact with skin  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H360D - May damage the unborn child  
Combustible liquid

### Precautionary Statements

P201 - Obtain special instructions before use  
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing  
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

### Additional EU labelling

Restricted to professional users

## 2.3. Other hazards

No information available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Component	CAS-No	EC-No.	Weight %	CLP Classification - Regulation (EC) No 1272/2008
Dimethyl acetamide	127-19-5	EEC No. 204-826-4	>95	Acute Tox. 4 (H312) Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Repr. 1B (H360D)

Reach Registration Number

01-2119459339-27

Full text of Hazard Statements: see section 16

# SAFETY DATA SHEET

N,N-Dimethylacetamide

Revision Date Oct-2018

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
<b>Ingestion</b>	Do not induce vomiting. Call a physician or Poison Control Center immediately.
<b>Inhalation</b>	Move to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. If not breathing, give artificial respiration.
<b>Protection of First-aiders</b>	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

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

Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

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

**Notes to Physician** Treat symptomatically. Symptoms may be delayed.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.

#### **Extinguishing media which must not be used for safety reasons**

No information available.

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

Combustible material. Containers may explode when heated. Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.

#### **Hazardous Combustion Products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>).

### 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Evacuate personnel to safe areas. Remove all sources of ignition. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing.

# SAFETY DATA SHEET

N,N-Dimethylacetamide

Revision Date Oct-2018

## 6.2. Environmental precautions

Avoid release to the environment. See Section 12 for additional ecological information.

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

Remove all sources of ignition. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Use spark-proof tools and explosion-proof equipment.

## 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Wear personal protective equipment. Keep away from open flames, hot surfaces and sources of ignition. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist. Do not ingest. Use spark-proof tools and explosion-proof equipment.

### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

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

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep under nitrogen.

### 7.3. Specific end use(s)

Use in laboratories

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### **Exposure limits**

List source(s): **EU** - Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. **UK** - EH40/2005 Containing the workplace exposure limits (WELs) for use with the Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended). Updated by September 2006 official press release and October 2007 Supplement. **IRE** - 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority.

Component	European Union	The United Kingdom	France	Belgium	Spain
Dimethyl acetamide	TWA: 10 ppm 8 hr TWA: 36 mg/m <sup>3</sup> 8 hr STEL: 20 ppm 15 min STEL: 72 mg/m <sup>3</sup> 15 min Possibility of significant uptake through the skin	STEL: 20 ppm 15 min STEL: 72 mg/m <sup>3</sup> 15 min TWA: 10 ppm 8 hr TWA: 36 mg/m <sup>3</sup> 8 hr Skin	TWA / VME: 2 ppm (8 heures). restrictive limit TWA / VME: 7.2 mg/m <sup>3</sup> (8 heures). restrictive limit STEL / VLCT: 10 ppm. restrictive limit STEL / VLCT: 36 mg/m <sup>3</sup> . restrictive limit Peau	TWA: 10 ppm 8 uren TWA: 36 mg/m <sup>3</sup> 8 uren STEL: 20 ppm 15 minuten STEL: 72 mg/m <sup>3</sup> 15 minuten Huid	STEL / VLA-EC: 20 ppm (15 minutos). STEL / VLA-EC: 72 mg/m <sup>3</sup> (15 minutos). TWA / VLA-ED: 10 ppm (8 horas) TWA / VLA-ED: 36 mg/m <sup>3</sup> (8 horas) Piel

# SAFETY DATA SHEET

**N,N-Dimethylacetamide**

**Revision Date** Oct-2018

Component	Italy	Germany	Portugal	The Netherlands	Finland
Dimethyl acetamide	TWA: 10 ppm 8 ore. Media Ponderata nel Tempo TWA: 36 mg/m <sup>3</sup> 8 ore. Media Ponderata nel Tempo STEL: 20 ppm 15 minuti. Breve termine STEL: 72 mg/m <sup>3</sup> 15 minuti. Breve termine Pelle	TWA: 10 ppm (8 Stunden). AGW - exposure factor 2 TWA: 36 mg/m <sup>3</sup> (8 Stunden). AGW - exposure factor 2 TWA: 10 ppm (8 Stunden). MAK TWA: 36 mg/m <sup>3</sup> (8 Stunden). MAK Höhepunkt: 20 ppm Höhepunkt: 72 mg/m <sup>3</sup> Haut	STEL: 20 ppm 15 minutos STEL: 72 mg/m <sup>3</sup> 15 minutos TWA: 10 ppm 8 horas TWA: 36 mg/m <sup>3</sup> 8 horas Pele	huid STEL: 72 mg/m <sup>3</sup> 15 minuten TWA: 36 mg/m <sup>3</sup> 8 uren	TWA: 10 ppm 8 tunteina TWA: 36 mg/m <sup>3</sup> 8 tunteina STEL: 20 ppm 15 minuutteina STEL: 72 mg/m <sup>3</sup> 15 minuutteina lho

Component	Austria	Denmark	Switzerland	Poland	Norway
Dimethyl acetamide	Haut MAK-KZW: 20 ppm 15 Minuten MAK-KZW: 72 mg/m <sup>3</sup> 15 Minuten MAK-TMW: 10 ppm 8 Stunden MAK-TMW: 36 mg/m <sup>3</sup> 8 Stunden	TWA: 10 ppm 8 timer TWA: 36 mg/m <sup>3</sup> 8 timer Hud	Haut/Peau STEL: 20 ppm 15 Minuten STEL: 70 mg/m <sup>3</sup> 15 Minuten TWA: 10 ppm 8 Stunden TWA: 35 mg/m <sup>3</sup> 8 Stunden	STEL: 70 mg/m <sup>3</sup> 15 minutach TWA: 35 mg/m <sup>3</sup> 8 godzinach	TWA: 10 ppm 8 timer TWA: 35 mg/m <sup>3</sup> 8 timer STEL: 10 ppm 15 minutter. STEL: 35 mg/m <sup>3</sup> 15 minutter. Hud

Component	Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
Dimethyl acetamide	TWA: 10 ppm TWA: 36 mg/m <sup>3</sup> STEL : 20 ppm STEL : 72 mg/m <sup>3</sup> Skin notation	kože TWA-GVI: 10 ppm 8 satima. TWA-GVI: 36 mg/m <sup>3</sup> 8 satima. STEL-KGVI: 20 ppm 15 minutama. STEL-KGVI: 72 mg/m <sup>3</sup> 15 minutama.	TWA: 10 ppm 8 hr. TWA: 36 mg/m <sup>3</sup> 8 hr. STEL: 20 ppm 15 min STEL: 72 mg/m <sup>3</sup> 15 min Skin	Skin-potential for cutaneous absorption STEL: 20 ppm STEL: 72 mg/m <sup>3</sup> TWA: 10 ppm TWA: 36 mg/m <sup>3</sup>	TWA: 30 mg/m <sup>3</sup> 8 hodinách. Potential for cutaneous absorption Ceiling: 60 mg/m <sup>3</sup>

Component	Estonia	Gibraltar	Greece	Hungary	Iceland
Dimethyl acetamide	Nahk TWA: 10 ppm 8 tundides. TWA: 36 mg/m <sup>3</sup> 8 tundides. STEL: 20 ppm 15 minutites. STEL: 72 mg/m <sup>3</sup> 15 minutites.	Skin notation TWA: 10 ppm 8 hr TWA: 36 mg/m <sup>3</sup> 8 hr STEL: 20 ppm 15 min STEL: 72 mg/m <sup>3</sup> 15 min	skin - potential for cutaneous absorption STEL: 20 ppm STEL: 72 mg/m <sup>3</sup> TWA: 10 ppm TWA: 36 mg/m <sup>3</sup>	STEL: 72 mg/m <sup>3</sup> 15 percekben. CK TWA: 36 mg/m <sup>3</sup> 8 órában. AK lehetséges borön keresztül felszívódás	STEL: 20 ppm STEL: 72 mg/m <sup>3</sup> TWA: 10 ppm 8 klukkustundum. TWA: 36 mg/m <sup>3</sup> 8 klukkustundum. Skin notation Ceiling: 20 ppm Ceiling: 72 mg/m <sup>3</sup>

Component	Latvia	Lithuania	Luxembourg	Malta	Romania
Dimethyl acetamide	skin - potential for cutaneous exposure STEL: 20 ppm STEL: 72 mg/m <sup>3</sup> TWA: 10 ppm TWA: 36 mg/m <sup>3</sup>	TWA: 10 ppm IPRD TWA: 36 mg/m <sup>3</sup> IPRD Oda STEL: 20 ppm STEL: 72 mg/m <sup>3</sup>	Possibility of significant uptake through the skin TWA: 10 ppm 8 Stunden TWA: 36 mg/m <sup>3</sup> 8 Stunden STEL: 20 ppm 15 Minuten STEL: 72 mg/m <sup>3</sup> 15 Minuten	possibility of significant uptake through the skin TWA: 10 ppm TWA: 36 mg/m <sup>3</sup> STEL: 20 ppm 15 minuti STEL: 72 mg/m <sup>3</sup> 15 minuti	Skin notation TWA: 10 ppm 8 ore TWA: 36 mg/m <sup>3</sup> 8 ore STEL: 72 mg/m <sup>3</sup> 15 minute STEL: 20 ppm 15 minute

Component	Russia	Slovak Republic	Slovenia	Sweden	Turkey
Dimethyl acetamide	TWA: 1 mg/m <sup>3</sup> 0715 Skin notation STEL: 3 mg/m <sup>3</sup> 0715	Ceiling: 72 mg/m <sup>3</sup> Potential for cutaneous absorption TWA: 10 ppm TWA: 36 mg/m <sup>3</sup>	TWA: 10 ppm 8 urah TWA: 36 mg/m <sup>3</sup> 8 urah Koža STEL: 20 ppm 15 minutah STEL: 72 mg/m <sup>3</sup> 15	Binding STL: 20 ppm 15 minuter Binding STL: 70 mg/m <sup>3</sup> 15 minuter LLV: 10 ppm 8 timmar. LLV: 35 mg/m <sup>3</sup> 8	Deri TWA: 10 ppm 8 saat TWA: 36 mg/m <sup>3</sup> 8 saat STEL: 20 ppm 15 dakika STEL: 72 mg/m <sup>3</sup> 15

# SAFETY DATA SHEET

**N,N-Dimethylacetamide**

**Revision Date** Oct-2018

			minutah	timmar. Hud	dakika
--	--	--	---------	----------------	--------

**Biological limit values**

List source(s): **UK** - Biological Monitoring Guidance Values provided by the UK's Health and Safety Executive (HSE) Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended) and EH40/2005.

Component	European Union	United Kingdom	France	Spain	Germany
Dimethyl acetamide		N-methylacetamide: 100 mmol/mol creatinine urine post shift	N-Methylacetamide: 30 mg/g creatinine urine end of shift at end of workweek	N-Methylacetamide: 30 mg/g Creatinine urine end of workweek	N,N-Methylacetamide plus N-Hydroxymethyl-N-methylacetamide: 30 mg/g urine (end of shift measured as mg/g Creatinine) N,N-Methylacetamide plus N-Hydroxymethyl-N-methylacetamide: 30 mg/g urine (end of several shifts measured as mg/g Creatinine; for long-term exposures)

Component	Italy	Finland	Denmark	Bulgaria	Romania
Dimethyl acetamide					N-Methyl acetamide: 30 µg/g Creatinine urine end of work week

**Monitoring methods**

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS70 General methods for sampling airborne gases and vapours

**Derived No Effect Level (DNEL)** No information available

<u>Route of exposure</u>	Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Oral Dermal Inhalation		42 mg/kg/day 120 mg/m <sup>3</sup>		11 mg/kg/day 23 mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC)** No information available.

Fresh water	0.5 mg/l
Fresh water sediment	2.27 mg/kg dw
Marine water	0.05 ml/l
Marine water sediment	0.227 mg/kg dw
Water Intermittent	5 mg/l
Microorganisms in sewage treatment	458 mg/l
Soil (Agriculture)	0.159 mg/kg

**8.2. Exposure controls**

**Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to

# SAFETY DATA SHEET

N,N-Dimethylacetamide

Revision Date Oct-2018

control hazardous materials at source

## Personal protective equipment

**Eye Protection** Goggles (European standard - EN 166)

**Hand Protection** Protective gloves

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Butyl rubber	> 480 minutes	0.635 mm	Level 6 EN 374	As tested under EN374-3 Determination of Resistance to Permeation by Chemicals
Neoprene gloves	> 84 minutes	0.45 mm		

**Skin and body protection** Wear appropriate protective gloves and clothing to prevent skin exposure

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

**Respiratory Protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly

**Large scale/emergency use** Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

**Recommended Filter type:** Organic gases and vapours filter Type A Brown conforming to

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Appearance</b>	Colorless	
<b>Physical State</b>	Liquid	
<b>Odor</b>	Ammonia-like	
<b>Odor Threshold</b>	No data available	
<b>pH</b>	4	200 g/l aq. sol
<b>Melting Point/Range</b>	-20 °C / -4 °F	
<b>Softening Point</b>	No data available	
<b>Boiling Point/Range</b>	164 - 166 °C / 327.2 - 330.8 °F	@ 760 mmHg
<b>Flash Point</b>	70 °C / 158 °F	<b>Method</b> - No information available
<b>Evaporation Rate</b>	<0.17 (Butyl Acetate = 1.0)	
<b>Flammability (solid,gas)</b>	Not applicable	Liquid
<b>Explosion Limits</b>	<b>Lower</b> 1.7 vol% <b>Upper</b> 11.5 vol%	
<b>Vapor Pressure</b>	1.7 mbar @ 25 °C	
<b>Vapor Density</b>	3.02	(Air = 1.0)
<b>Specific Gravity / Density</b>	0.937	

# SAFETY DATA SHEET

N,N-Dimethylacetamide

Revision Date Oct-2018

<b>Bulk Density</b>	Not applicable	Liquid
<b>Water Solubility</b>	soluble	
<b>Solubility in other solvents</b>	No information available	
<b>Partition Coefficient (n-octanol/water)</b>		
<b>Component</b>	<b>log Pow</b>	
Dimethyl acetamide	0.8	
<b>Autoignition Temperature</b>	490 °C / 914 °F	
<b>Decomposition Temperature</b>	No data available	
<b>Viscosity</b>	1.02 mPa s @ 20 °C	
<b>Explosive Properties</b>	No information available	explosive air/vapour mixtures possible
<b>Oxidizing Properties</b>	No information available	

## 9.2. Other information

<b>Molecular Formula</b>	C4 H9 N O
<b>Molecular Weight</b>	87.12

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

None known, based on information available

### 10.2. Chemical stability

Stable under normal conditions, Hygroscopic.

### 10.3. Possibility of hazardous reactions

#### **Hazardous Polymerization**

Hazardous polymerization does not occur.

#### **Hazardous Reactions**

None under normal processing.

### 10.4. Conditions to avoid

Incompatible products. Heat, flames and sparks. Exposure to moisture. Keep away from open flames, hot surfaces and sources of ignition.

### 10.5. Incompatible materials

Strong oxidizing agents. Aldehydes. Peroxides. Strong acids.

### 10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>).

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Product Information

#### (a) acute toxicity;

**Oral**

Based on available data, the classification criteria are not met

**Dermal**

Category 4

**Inhalation**

Category 4

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Dimethyl acetamide	LD50 = 4263 mg/kg ( Rat )	LD50 = 2240 mg/kg ( Rabbit ) LD50 > 2 g/kg ( Rat )	LC50 = 8.81 mg/L ( Rat ) 1 h LC50 = 2475 ppm ( Rat ) 1 h

#### (b) skin corrosion/irritation;

Based on available data, the classification criteria are not met



# SAFETY DATA SHEET

N,N-Dimethylacetamide

Revision Date Oct-2018

- (c) serious eye damage/irritation; Category 2
- (d) respiratory or skin sensitization;  
Respiratory Based on available data, the classification criteria are not met  
Skin Based on available data, the classification criteria are not met
- (e) germ cell mutagenicity; Based on available data, the classification criteria are not met  
Not mutagenic in AMES Test
- (f) carcinogenicity; Based on available data, the classification criteria are not met  
There are no known carcinogenic chemicals in this product
- (g) reproductive toxicity;  
Reproductive Effects Category 1B  
May cause harm to the unborn child.
- (h) STOT-single exposure; Based on available data, the classification criteria are not met
- (i) STOT-repeated exposure; Based on available data, the classification criteria are not met  
Target Organs None known.
- (j) aspiration hazard; Based on available data, the classification criteria are not met  
Symptoms / effects, both acute and delayed Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecotoxicity effects Do not empty into drains. .

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Dimethyl acetamide	LC50: > 500 mg/L, 96h static (Leuciscus idus)	EC50 >500 mg/L/48h	EC50 >500 mg/L/72h	EC50 = 2393 mg/L 30 min EC50 = 4815 mg/L 5 min

**12.2. Persistence and degradability** Readily biodegradable  
**Persistence** Persistence is unlikely.

**12.3. Bioaccumulative potential** Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)
Dimethyl acetamide	0.8	No data available

**12.4. Mobility in soil** The product is water soluble, and may spread in water systems . Will likely be mobile in the environment due to its water solubility. Highly mobile in soils

**12.5. Results of PBT and vPvB** No data available for assessment.

# SAFETY DATA SHEET

N,N-Dimethylacetamide

Revision Date Oct-2018

## assessment

### 12.6. Other adverse effects

**Endocrine Disruptor Information**  
**Persistent Organic Pollutant**  
**Ozone Depletion Potential**

This product does not contain any known or suspected endocrine disruptors  
This product does not contain any known or suspected substance  
This product does not contain any known or suspected substance

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste from Residues / Unused Products**

Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

**Contaminated Packaging**

Dispose of this container to hazardous or special waste collection point.

**European Waste Catalogue (EWC)**

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

**Other Information**

Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains.

## SECTION 14: TRANSPORT INFORMATION

**IMDG/IMO**

Not regulated

**14.1. UN number**

**14.2. UN proper shipping name**

**14.3. Transport hazard class(es)**

**14.4. Packing group**

**ADR**

Not regulated

**14.1. UN number**

**14.2. UN proper shipping name**

**14.3. Transport hazard class(es)**

**14.4. Packing group**

**IATA**

Not regulated

**14.1. UN number**

**14.2. UN proper shipping name**

**14.3. Transport hazard class(es)**

**14.4. Packing group**

**14.5. Environmental hazards**

No hazards identified

**14.6. Special precautions for user**

No special precautions required

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the**

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**International Inventories**

X = listed

# SAFETY DATA SHEET

N,N-Dimethylacetamide

Revision Date Oct-2018

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
Dimethyl acetamide	204-826-4	-		X	X	-	X	X	X	X	X

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Dimethyl acetamide		Use restricted. See item 30. (see <a href="http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32006R1907:EN:NOT">http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32006R1907:EN:NOT</a> for restriction details)	SVHC Candidate list - Toxic for reproduction (Article 57 c)

## National Regulations

Component	Germany - Water Classification (VwVwS)	Germany - TA-Luft Class
Dimethyl acetamide	WGK 1 WGK 2	

Component	France - INRS (Tables of occupational diseases)
Dimethyl acetamide	Tableaux des maladies professionnelles (TMP) - RG 84

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.

Take note of Dir 94/33/EC on the protection of young people at work

Take note of Dir 92/85/EC on the protection of pregnant and breastfeeding women at work

## 15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

## SECTION 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3

H312 - Harmful in contact with skin

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H360D - May damage the unborn child

### Legend

**CAS** - Chemical Abstracts Service

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**IECSC** - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japanese Existing and New Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

**WEL** - Workplace Exposure Limit

**ACGIH** - American Conference of Governmental Industrial Hygienists

**DNEL** - Derived No Effect Level

**RPE** - Respiratory Protective Equipment

**LC50** - Lethal Concentration 50%

No Observed Effect Concentration

Persistent, Bioaccumulative, Toxic

**TWA** - Time Weighted Average

**IARC** - International Agency for Research on Cancer

**PNEC** - Predicted No Effect Concentration

**LD50** - Lethal Dose 50%

**EC50** - Effective Concentration 50% **NOEC** -

**POW** - Partition coefficient Octanol:Water **PBT** -

**vpPb** - very Persistent, very Bioaccumulative

**ADR** - European Agreement Concerning the International Carriage of Dangerous Goods by Road

**IMO/IMDG** - International Maritime Organization/International Maritime

**ICAO/IATA** - International Civil Aviation Organization/International Air Transport Association

# SAFETY DATA SHEET

**N,N-Dimethylacetamide**

**Revision Date** Oct-2018

Dangerous Goods Code

**MARPOL** - International Convention for the Prevention of Pollution from Ships

**OECD** - Organisation for Economic Co-operation and Development

**ATE** - Acute Toxicity Estimate

**BCF** - Bioconcentration factor

**VOC** - Volatile Organic Compounds

**Key literature references and sources for data**

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

**Training Advice**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Chemical incident response training.

Fire prevention and fighting, identifying hazards and risks, static electricity, explosive atmospheres posed by vapours and dusts.

**Creation Date** Oct-2013

**Next Revision Date** Oct-2023

**Revision Summary** SDS section 1 updated and update of Format.

**This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**