

# SAFETY DATA SHEET

Creation Date 06-Oct-2009

Revision Date 24-Dec-2021

Revision Number 5

1. Identification N,N-Dimethylacetamide

# Product Name

AC115690000; AC115690010; AC115690025; AC115690050; AC115690250

CAS No Synonyms

Cat No. :

127-19-5 No information available

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

## Details of the supplier of the safety data sheet

<u>Company</u> Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410

Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

**Emergency Telephone Number** 

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

# 2. Hazard(s) identification

Category 4 Category 4 Category 4 Category 2 Category 1B

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids Acute dermal toxicity
Acute Inhalation Toxicity - Vapors
Serious Eye Damage/Eye Irritation Reproductive Toxicity

#### Label Elements

Signal Word Danger

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



#### Precautionary Statements Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wash face, hands and any exposed skin thoroughly after handling Wear eve/face protection Keep away from heat/sparks/open flames/hot surfaces. - No smoking Response IF exposed or concerned: Get medical attention/advice Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor/physician if you feel unwell Wash contaminated clothing before reuse Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage Store locked up Store in a well-ventilated place. Keep cool Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC)

None identified

WARNING. Reproductive Harm - https://www.p65warnings.ca.gov/.

# 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Dimethyl acetamide	127-19-5	>95

# 4. First-aid measures

General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. 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.
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.
Most important symptoms and effects Notes to Physician	None reasonably foreseeable. Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.	
Unsuitable Extinguishing Media	No information available	
Flash Point	70 °C / 158 °F	
Method -	No information available	
Autoignition Temperature	490 °C / 914 °F	
Explosion Limits		
Upper	11.5 vol %	
Lower	1.7 vol %	

Sensitivity to Static Discharge No information available

Sensitivity to Mechanical Impact No information available

# **Specific Hazards Arising from the Chemical**

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 (NOx).

## Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u> Health 2	Flammability 2	Instability 1	Physical hazards N/A
	6. Accidental re	lease measures	
Personal PrecautionsUse personal protective equipment as required. Ensure adequate ventilation. Keep away from and upwind of spill/leak. Evacuate personnel to safe areas.Environmental PrecautionsShould not be released into the environment. See Section 12 for additional Ecologic Information.		o safe areas.	

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Up

7. Handling and storage		
Handling	Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on	

clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance.

Storage.

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Keep under nitrogen. Store under an inert atmosphere. Keep container tightly closed in a dry and well-ventilated place. Protect from moisture. Incompatible Materials. Strong oxidizing agents. Aldehydes. Peroxides. Strong acids.

# 8. Exposure controls / personal protection

### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Dimethyl acetamide	TWA: 10 ppm	(Vacated) TWA: 10 ppm	IDLH: 300 ppm	TWA: 10 ppm
	Skin	(Vacated) TWA: 35 mg/m <sup>3</sup>	TWA: 10 ppm	
		Skin	TWA: 35 mg/m <sup>3</sup>	
		TWA: 10 ppm	6	
		TWA: 35 mg/m <sup>3</sup>		

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

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.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

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

Solubility Partition coefficient; n-octanol/wat Autoignition Temperature Decomposition Temperature Viscosity Molecular Formula Molecular Weight	er No data available 490 °C / 914 °F No information available 1.02 mPa s @ 20 °C C4 H9 N O 87.12	
	10. Stability and reactivity	
Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions. Hygroscopic.	
Conditions to Avoid	Incompatible products. Heat, flames and sparks. Exposure to moisture. Keep away from open flames, hot surfaces and sources of ignition. Exposure to moist air or water.	
Incompatible Materials	Strong oxidizing agents, Aldehydes, Peroxides, Strong acids	
Hazardous Decomposition Product	ts Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx)	
Hazardous Polymerization	Hazardous polymerization does not occur.	

11. Toxicological information

None under normal processing.

# Acute Toxicity

# Product Information

**Hazardous Reactions** 

Component Informa	ation							
Componer	nt		LD50 Oral			LD50 Dermal	LC5	50 Inhalation
Dimethyl acetamide L		LD	D50 = 4263 mg/kg (Rat) LD50 = 2 <sup>-</sup>		LD50 = 210	00 mg/kg (Rabbit) OE 402	CD LC50 = 8.	81 mg/L (Rat)1 h
Toxicologically Synergistic Products			No information ava	ailable				
elayed and immed	liate effects	as we	Il as chronic effe	ects fror	<u>n short an</u>	d long-term expo	<u>sure</u>	
rritation		I	rritating to eyes					
Sensitization		1	No information ava	ailable				
Carcinogenicity		٦	The table below in	dicates	whether ea	ach agency has list	ed any ingredier	nt as a carcinoger
Component	CAS N	0	IARC	1	NTP	ACGIH	OSHA	Mexico
Dimethyl acetamide 127-19-5		-	Group 2B		t listed	A3	Х	Not listed
ACGIH: (American Conference of G Hygienists) Mutagenic Effects			Governmental Industrial A1 - Known Human Carcinogen A2 - Suspected Human Carcinogen A3 - Animal Carcinogen ACGIH: (American Conference of Governmental Industrial Hygienists) Not mutagenic in AMES Test					
Reproductive Effects			May cause harm to the unborn child.					
Developmental Effects			No information available.					
Teratogenicity			No information available.					
STOT - single exposure STOT - repeated exposure			None known None known					

	Asp	iration	hazard
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No information available

Symptoms / effects, both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting delayed

**Endocrine Disruptor Information** No information available

**Other Adverse Effects** 

The toxicological properties have not been fully investigated.

12. Ecological information

## Ecotoxicity

Do not empty into drains. .

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Dimethyl acetamide	EC50 >500 mg/L/72h	Not listed	EC50 = 2393 mg/L 30 min	EC50 >500 mg/L/48h
			EC50 = 4815 mg/L 5 min	
Persistence and Degrada	ability Persistence i	s unlikely		

**Bioaccumulation/Accumulation** 

No information available.

Mobility

. Will likely be mobile in the environment due to its water solubility.

log Pow
0.8

	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	COMBUSTIBLE LIQUID, NOT REGULATED FOR TRANSPORT IN THIS QUANTITY According to 49 CFR §173.150(f)(1), this material should reclassified as NA1993, Combustible Liquid, NOS if it is shipped in bulk.
UN-No Proper Shipping Name Packing Group <u>TDG</u> IATA IMDG/IMO	NA1993 Combustible liquid, n.o.s. III Not regulated Not regulated Not regulated
	15. Regulatory information

## United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Dimethyl acetamide	127-19-5	Х	ACTIVE	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

## International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Dimethyl acetamide	127-19-5	Х	-	204-826-4	Х	Х	Х	Х	Х	KE-11114

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable

#### CERCLA

Not applicable

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category
Dimethyl acetamide	127-19-5	Carcinogen Developmental Male Reproductive	-	Developmental Carcinogen

# U.S. State Right-to-Know

# Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Dimethyl acetamide	Х	Х	Х	Х	Х

#### U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

#### Other International Regulations

Mexico - Grade

Moderate risk, Grade 2

## Authorisation/Restrictions according to EU REACH

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 72. (see link for restriction details) Use restricted. See item 30. (see link for restriction details) Use restricted. See item 75. (see link for restriction details)	SVHC Candidate list - Toxic for reproduction (Article 57 c)

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

https://echa.europa.eu/authorisation-list https://echa.europa.eu/substances-restricted-under-reach https://echa.europa.eu/candidate-list-table

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Dimethyl acetamide	127-19-5	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive	Seveso III Directive	Rotterdam	Basel Convention
		(2012/18/EC) - Qualifying Quantities	(2012/18/EC) - Qualifying Quantities	Convention (PIC)	(Hazardous Waste)
		for Major Accident	for Safety Report		
		Notification	Requirements		
Dimethyl acetamide	127-19-5	Not applicable	Not applicable	Not applicable	Not applicable

# 16. Other information

**Prepared By** 

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Creation Date
Revision Date
Print Date
Revision Summary

06-Oct-2009 24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

### 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 SDS**