

# SAFETY DATA SHEET

Creation Date 30-Nov-1999

Revision Date 26-Dec-2021

Revision Number 6

# 1. Identification

### **Product Name**

## N-Methylformamide

Cat No. :

## AC414330000; AC414330010; AC414330050; AC414331000

CAS No123-39-7SynonymsN-Methylformamide; Monomethylformamide.

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

#### **Classification**

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

Acute dermal toxicity Reproductive Toxicity

Category 4 Category 1B

#### Label Elements

Signal Word Danger

Hazard Statements Harmful in contact with skin

May damage the unborn child



#### 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 **Response** IF exposed or concerned: Get medical attention/advice **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 **Storage** Store locked up **Disposal** Dispose of contents/container to an approved waste disposal plant **Hazards not otherwise classified (HNOC)** None identified

# 3. Composition/Information on Ingredients

Component		CAS No	Weight %	
N-Methylformamide		123-39-7	100	
	4.	First-aid measures		
Eye Contact	<b>Ye Contact</b> Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. C medical attention.			
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.			
Inhalation	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.			
Ingestion	Clean mouth with water. Get medical attention.			
Most important symptoms and No information available.				
Notes to Physician	Treat sympto	matically		
	5. Fi	re-fighting measures		

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.
Unsuitable Extinguishing Media	No information available
Flash Point	111 °C / 231.8 °F

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Method -	No informatio	n available			
Autoignition Temperature	425 °C / 79	97 °F			
Explosion Limits Upper Lower Sensitivity to Mechanic Sensitivity to Static Dis					
Specific Hazards Arising fr Keep product and empty con		nd sources of ignition.			
Hazardous Combustion Pro Nitrogen oxides (NOx). Carb Protective Equipment and As in any fire, wear self-conta protective gear.	on monoxide (CO). Carb Precautions for Firefig	hters	MSHA/NIOSH (appro	ved or equivalent) and f	ull
NFPA Health 2	<b>Flammabi</b> 0	lity	Instability 0	Physical haz N/A	ards
	6. Accid	ental release	measures		
Personal Precautions Environmental Precautions		uate ventilation. Use p I2 for additional Ecolo		uipment as required.	
Methods for Containment a Up		inert absorbent mater ep in suitable, closed			l binder,
	7. H	andling and s	torage		
HandlingDo not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Take precautionary measures against static discharges. Handle product only in closed system o provide appropriate exhaust ventilation.					
Storage.	from heat, spa	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks and flame. Incompatible Materials. Acids. Bases. Strong oxidizing agents. Acid chlorides.			
	8. Exposure c	controls / pers	onal protecti	on	
Exposure Guidelines		does not contain any h ned by the region spec		vith occupational exposu	ıre
Component	ACGIH TLV	OSHA PEL	NIOSH IDL	.H Mexico OE	L (TWA)
N-Methylformamide	TWA: 1 ppm Skin				_()
Engineering Measures	Ensure adequ	uate ventilation, espectowers are close to the		s. Ensure that eyewash	stations
Personal Protective Equipr	nent				
Eye/face Protection				ety goggles as described 910.133 or European St	
Skin and body protection	on Wear appropr	riate protective gloves	and clothing to preve	nt skin exposure.	

Respiratory Protection Hygiene Measures	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. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

2111
Physical State
Appearance
Odor
Odor Threshold
рН
Melting Point/Range
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

Liquid Colorless Slight No information available 6-8 250 g/l aq.sol -3.2 °C / 26.2 °F 199 - 201 °C / 390.2 - 393.8 °F 111 °C / 231.8 °F No information available Not applicable

17.8% 3.8% 0.2 mbar @ 20 °C No information available 1.003 No information available 425 °C / 797 °F No information available 1.9 mPa.s at 20 °C C2 H5 N O 59.06

# 10. Stability and reactivity

wn, based on information available
ible products.
ses, Strong oxidizing agents, Acid chlorides
oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)
is polymerization does not occur.
ler normal processing.
t u

11. Toxicological information

### Acute Toxicity

#### Product Information Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
N-Methylformamide	3000 mg/kg (Rat)	1289 mg/kg (Rabbit)	LC50 > 10.76 mg/L (Rat)4 h
Toxicologically Synergistic Products	No information available		

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation		No information ava	ailable			
Sensitization		No information available				
Carcinogenicity		The table below in	dicates whether ea	ich agency has list	ed any ingredient	as a carcinogen.
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
N-Methylformamide	123-39-7	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		Not mutagenic in A	MES Test			
Reproductive Effec	ts	No information ava	ailable.			
Developmental Effe	ects	No information ava	ailable.			
Teratogenicity Teratogenic effects have occurred in experimental animals.						
STOT - single exposureNone knownSTOT - repeated exposureNone known						
Aspiration hazard No information available						
Symptoms / effects,both acute and No information available delayed						
Endocrine Disruptor Information No information available						
Other Adverse Effe	cts	The toxicological p	properties have not	been fully investig	ated.	
		12. Ecolo	ogical infor	mation		
Ecotoxicity						

Compone	at log Pow
Mobility	Will likely be mobile in the environment due to its water solubility.
<b>Bioaccumulation/Accumulation</b>	No information available.
Persistence and Degradability	Persistence is unlikely

Component	log Pow
N-Methylformamide	-0.87

	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	Not regulated
<u>TDG</u>	Not regulated
	Not regulated
IMDG/IMO	Not regulated

# 15. Regulatory information

## United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
			Addite indodite	i lugo

### **N-Methylformamide**

N-Methylformamide	123-39-7	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
N-Methylformamide	123-39-7	Х	-	204-624-6	Х	Х	Х	Х	Х	KE-24109

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 does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	

Mexico - Grade

No information available

#### 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	<b>U</b> (
N-Methylformamide	-	Use restricted. See item 30. (see http://eur-lex.europa.eu/LexUriServ/L	-

exUriServ.do?uri=CELEX:32006R190
7:EN:NOT for restriction details)

https://echa.europa.eu/substances-restricted-under-reach

#### 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)
N-Methylformamide	123-39-7	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
N-Methylformamide	123-39-7	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs
	Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Creation Date	30-Nov-1999
Revision Date	26-Dec-2021
Print Date	26-Dec-2021
Revision Summary	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