

SAFETY DATA SHEET

Creation Date 19-May-2011

Revision Date 23-Jan-2018

Revision Number 4

1. Identification

N-Methyl-L-prolinol

Cat No. :

Product Name

CAS-No Synonyms 34381-71-0 (S)-2-Hydroxymethyl-1-methylpyrrolidine; (S)-Methylpyrrolidine-2-methanol

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

AC442530000; AC442530050

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)

Flammable liquids	Category 4
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	•••

Label Elements

Signal Word Warning

Hazard Statements

Combustible liquid May cause respiratory irritation Causes skin irritation Causes serious eye irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep cool

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash 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 in a well-ventilated place. Keep container tightly closed 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 %
(S)-Methylpyrrolidine-2-methanol	34381-71-0	>95

4. First-aid measures				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.			
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Obtain medical attention.			
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Obtain medical attention.			
Ingestion	Do not induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Obtain medical attention.			
Most important symptoms and effects Notes to Physician	Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting Treat symptomatically			

5. Fire-fighting measures					
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.				
Unsuitable Extinguishing Media	No information available				
Flash Point	63 °C / 145.4 °F				
Method -	No information available				
Autoignition Temperature Explosion Limits	No information available				
Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available t No information available No information available				

Specific Hazards Arising from the Chemical

Combustible material. Containers may explode when heated.

Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and vapors Carbon monoxide (CO) Carbon dioxide (CO₂) 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 Precautions		on. Use personal protective eq ry measures against static dis	uipment. Remove all sources of
Environmental Precaution		o the environment. See Section	
Methods for Containment Up	and Clean Sweep up or vacuum up s sources of ignition.	pillage and collect in suitable o	container for disposal. Remove all
	7. Handling	and storage	
Handling			, on skin, or on clothing. Avoid vay from open flames, hot surfaces
Storage		ers tightly closed in a dry, coo	from moisture. Store under an inert I and well-ventilated place. Keep
	8. Exposure controls	/ personal protect	ion
Exposure Guidelines		tain any hazardous materials v gion specific regulatory bodies	
Engineering Measures	Ensure that eyewash station	ons and safety showers are cl	ose to the workstation location.

	Ensure adequate ventilation, especially in confined areas.			
Personal Protective Equipment				
Eye/face Protection	Tightly fitting safety goggles.			
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.			
Respiratory Protection	No protective equipment is needed under normal use conditions.			
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.			

9. Physical and chemical properties

Physical State	Liquid
Appearance	Pale yellow
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	67 - 69 °C / 152.6 - 156.2 °F @ 12.0 Torr
Flash Point	63 °C / 145.4 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Density	0.97g/ml @ 25°C
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C6H13NO
Molecular Weight	115.17

10. Stability and reactivity

Reactive Hazard	None known, based on information available			
Stability	Stable under recommended storage conditions. Hygroscopic. Air sensitive.			
Conditions to Avoid	Incompatible products. Excess heat. Protect from moisture. Keep away from open flames, hot surfaces and sources of ignition.			
Incompatible Materials	Strong oxidizing agents, Strong acids, Acid chlorides, Acid anhydrides			
Hazardous Decomposition Product	s Thermal decomposition can lead to release of irritating gases and vapors, Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NOx)			
Hazardous Polymerization	Hazardous polymerization does not occur.			
Hazardous Reactions	None under normal processing.			
A suto Toxisitu	11. Toxicological information			

Acute Toxicity

Product Information Component Information	No acute toxicity in	No acute toxicity information is available for this product				
Toxicologically Synergistic Products	No information ava	No information available				
Delayed and immediate effects as	well as chronic effe	ects from short ar	nd long-term expo	sure		
Irritation	No information ava	ailable				
Sensitization	No information ava	ailable				
Carcinogenicity	The table below in	dicates whether e	ach agency has list	ted any ingredient	as a carcinogen.	
Component CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
(S)-Methylpyrrolidine-2 34381-71-0 -methanol	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects	No information ava	ailable				
Reproductive Effects	No information ava	ailable.				
Developmental Effects	No information ava	No information available.				
Teratogenicity	No information ava	No information available.				
STOT - single exposure STOT - repeated exposure	Respiratory system None known					
Aspiration hazard	No information ava	No information available				
Symptoms / effects,both acute ar delayed	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting					
Endocrine Disruptor Information	No information available					
Other Adverse Effects	The toxicological properties have not been fully investigated.					
	12. Ecol	ogical infor	mation			
<u>Ecotoxicity</u> Do not empty into drains.						
Persistence and Degradability	Persistence is unlikely based on information available.					
Bioaccumulation/ Accumulation	No information ava	ailable.				

Mobility Will likely be mobile in the environment due to its volatility.

Use 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
TDG	Not regulated
DOT TDG IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
(S)-Methylpyrrolidine-2-meth	-	-	-	251-981-9	-		Х	-	-	-	-
anol											

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated

polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable
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
OSHA Occupational Safety and Healt Not applicable	h Administration
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations	Not applicable

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

No information available

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date	19-May-2011 23-Jan-2018

Print Date Revision Summary 23-Jan-2018

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