

# SAFETY DATA SHEET

Revision Date 24-Dec-2021

**Revision Number** 4

## 1. Identification

## Product Name 2-Methylpiperidine

## Cat No. : AC127490000; AC127490050; AC127491000; AC127495000

CAS No Synonyms 109-05-7 2-Pipecoline

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)

Flammable liquids Acute oral toxicity Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 2 Category 4 Category 1 Category 1 Category 3

#### Label Elements

**Signal Word** Danger

## Hazard Statements

Highly flammable liquid and vapor Harmful if swallowed

Causes severe skin burns and eye damage May cause respiratory irritation



#### Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

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

Use only outdoors or in a well-ventilated area

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

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting equipment

Use only non-sparking tools

Take precautionary measures against static discharge

## Keep cool

### Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

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

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

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 Ingestion

#### Rinse mouth

Do NOT induce vomiting

#### Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

#### Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### 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 %		
Piperidine, 2-methyl-	109-05-7	99		

## 4. First-aid measures

#### Eye Contact

Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.
Inhalation	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Immediate medical attention is required.
Ingestion	Do NOT induce vomiting. Call a physician immediately.
Most important symptoms and effects	Difficulty in breathing. Causes burns by all exposure routes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Water mist may be used to cool closed containers.
	Chemical foam. Water mist may be used to cool closed containers.

Unsuitable Extinguishing Media	No information available
Flash Point	16 °C / 60.8 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

#### **Specific Hazards Arising from the Chemical**

Flammable. Vapors may travel to source of ignition and flash back. Will form explosive mixtures with air. Containers may explode when heated. Vapors may form explosive mixtures with air.

### **Hazardous Combustion Products**

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO2). Cyanides.

### **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.

NFPA_ Health 3	Flammability 3	Instability 0	Physical hazards N/A				
	6. Accidental re	lease measures					
Personal Precautions Environmental Precautions	<b>o</b> 1 <b>o</b> 0						
Methods for Containment and Clea Up	sawdust). Keep in suitable		el, acid binder, universal binder, I. Remove all sources of ignition.				

7. Handling and storage

Handling Storage.	Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Take precautionary measures against static discharges. Do not ingest. If swallowed then seek immediate medical assistance. Handle product only in closed system or provide appropriate exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Use only non-sparking tools. Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks and flame. Corrosives area. Flammables area. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Acids. Bases. Strong oxidizing agents. Strong acids. Acid anhydrides. Acid chlorides. Carbon dioxide (CO2).
8. E	xposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting equipment.
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.	Physical and chemical properties
Physical State	Liquid
Appearance	Yellow
Odor	Odorless
Odor Threshold	No information available
рН	12-13 111 g/l aq.sol
Melting Point/Range	-54 °C / 23 - 24.8 °F
Boiling Point/Range	118 - 119 °C / 244.4 - 246.2 °F
Flash Point	16 °C / 60.8 °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
Specific Gravity	0.844
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
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Viscosity Molecular Formula Molecular Weight		No information available C6 H13 N 99.18						
		10. Stabi	ility and rea	octivity				
Reactive Hazard		None known, base	d on information a	vailable				
Stability		Stable under norm	al conditions.					
Conditions to Avoid	d	Keep away from op to light. Incompatik		faces and sources	s of ignition. Exces	s heat. Exposure		
Incompatible Mater	rials	Acids, Bases, Stro Carbon dioxide (Co		s, Strong acids, Ac	cid anhydrides, Aci	d chlorides,		
Hazardous Decomp	position Products	s Nitrogen oxides (N	lOx), Carbon monc	xide (CO), Carbor	n dioxide (CO2), Cy	anides		
Hazardous Polyme	rization	No information ava	ailable.					
Hazardous Reactio	ns	None under norma	I processing.					
		11. Toxico	ological info	ormation				
Acute Toxicity								
Component Inform Toxicologically Syr Products	Product Information   Component Information   Toxicologically Synergistic No information available   Products   Delayed and immediate effects as well as chronic effects from short and long-term exposure							
Irritation		No information ava	ailable					
Sensitization		No information ava	ailable					
Carcinogenicity		The table below in	dicates whether ea	ch agency has list	ed any ingredient a	as a carcinogen.		
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
Piperidine, 2-methyl- Mutagenic Effects	109-05-7	Not listed No information ava	Not listed	Not listed	Not listed	Not listed		
Reproductive Effect	ts	No information ava						
Developmental Effe		No information ava	ailable.					
Teratogenicity		No information ava	ailable.					
STOT - single expo STOT - repeated ex		Respiratory system None known						
Aspiration hazard		No information ava	ailable					
Symptoms / effects delayed	s,both acute and	Inhalation of high v tiredness, nausea emesis is contraino investigated: Inges danger of perforati	and vomiting: Proc dicated. Possible p stion causes severe	luct is a corrosive perforation of stom	material. Use of ga ach or esophagus	astric lavage or should be		
Endocrine Disrupto	or Information	No information ava	ailable					

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Other Adverse Effects   The toxicological properties have not been fully investigated.					
	12. Ecological information				
<u>Ecotoxicity</u> Do not empty into drains.					
Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.				
Bioaccumulation/ Accumulation No information available.					
Mobility	Will likely be mobile in the environment due to its water solubility.				
	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	
UN-No	UN2733
Proper Shipping Name	AMINES, FLAMMABLE, CORROSIVE, N.O.S.
Hazard Class	3
Subsidiary Hazard Class	8
Packing Group	ll
<u>TDG</u>	
UN-No	UN2733
Proper Shipping Name	AMINES, FLAMMABLE, CORROSIVE, N.O.S.
Hazard Class	3
Subsidiary Hazard Class	8
Packing Group	ll
<u>IATA</u>	
UN-No	UN2733
Proper Shipping Name	AMINES, FLAMMABLE, CORROSIVE, N.O.S.*
Hazard Class	3
Subsidiary Hazard Class	8
Packing Group	II
IMDG/IMO	
UN-No	UN2733
Proper Shipping Name	AMINES, FLAMMABLE, CORROSIVE, N.O.S.
Hazard Class	3
Subsidiary Hazard Class	8
Packing Group	
	15. Regulatory information

## United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags	
Piperidine, 2-methyl-	109-05-7	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
Piperidine, 2-methyl-	109-05-7	-	Х	203-642-1	Х	Х	Х	Х	Х	-

**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

### 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)
Piperidine, 2-methyl-	109-05-7	Not applicable	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)
Piperidine, 2-methyl-	109-05-7	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information			
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com		
Revision Date Print Date Revision Summary	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