

SAFETY DATA SHEET

Creation Date 26-Nov-2010

Revision Date 24-Dec-2021

Revision Number 6

Product Name	2-Pentanone
Cat No. :	AC123500000; AC123500010; AC123500025; AC123500050; AC123500100; AC123502500
CAS No	107-87-9
Synonyms	Methyl propyl ketone
Recommended Use	Laboratory chemicals.
Uses advised against	Food, drug, pesticide or biocidal product use.

Company 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	Category 2
Acute oral toxicity	Category 4
Serious Eye Damage/Eye Irritation	Category 2

Label Elements

Signal Word Danger

Hazard Statements Highly flammable liquid and vapor Harmful if swallowed Causes serious eye irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

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

Skin

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

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

Ingestion

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

Rinse mouth

Fire

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

Storage

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

3. Composition/Information on Ingredients

Component		CAS No	Weight %		
Methylpropyl ketone		107-87-9	>95		
	4. F	irst-aid measures			
General Advice If symptoms persist, call a physician.					
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. If skin irritation persists, call a physician.			
Inhalation		Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.			
Ingestion	Clean mouth with water and drink afterwards plenty of water.				

Most important symptoms and effects	Irritating to eyes.
Notes to Physician	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	Water may be ineffective
Flash Point	7 °C / 44.6 °F
Method -	No information available
Autoignition Temperature	505 °C / 941 °F
Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	

Specific Hazards Arising from the Chemical

Flammable. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

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 2	Flammability 3	Instability 0	Physical hazards N/A	
		6. Accidental re	lease measures		
Personal	Personal Precautions Use personal protective equipment as required. Ensure adequate ventilation. Remove a sources of ignition. Take precautionary measures against static discharges.				
Environm	ental Precautions	Should not be released inter	o the environment.		
Methods Up	for Containment and Cle		nt material. Keep in suitable, c tion. Use spark-proof tools and		
		7. Handling	and storage		
Handling	Handling Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Ensure adequate ventilation. Avoid ingestion and inhalation. Keep away from o flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid igniti of vapors by static electricity discharge, all metal parts of the equipment must be ground Take precautionary measures against static discharges.			d inhalation. Keep away from open n-sparking tools. To avoid ignition	
Storage.		heat, sparks and flame. Fla	•	tilated place. Keep away from roduct quality: Store under an inert oxides. Strong oxidizing agents.	

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Methylpropyl ketone	STEL: 150 ppm	(Vacated) TWA: 200 ppm	IDLH: 1500 ppm	STEL: 150 ppm
		(Vacated) TWA: 700 mg/m ³	TWA: 150 ppm	
		(Vacated) STEL: 250 ppm	TWA: 530 mg/m ³	
		(Vacated) STEL: 875 mg/m ³	_	
		TWA: 200 ppm		
		TWA: 700 mg/m ³		

<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	Tight sealing safety goggles. Face protection shield.
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	Clear
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	-78 °C / -108.4 °F
Boiling Point/Range	100 - 103 °C / 212 - 217.4 °F
Flash Point	7 °C / 44.6 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	8.2 vol %
Lower	1.5 vol %
Vapor Pressure	27 mmHg @ 20 °C
Vapor Density	No information available
Specific Gravity	0.809
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	505 °C / 941 °F
Decomposition Temperature	No information available
Viscosity	0.5 mPa.s at 20 °C
Molecular Formula	C5 H10 O
Molecular Weight	86.13
-	

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials	Strong bases, Peroxides, Strong oxidizing agents, Amines, Isocyanates
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)	
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Informat	ion						
Component		LD50 Oral				LC50 Inhalation	
Methylpropyl ketone		1600 mg/kg (Rat)		6480 mg/kg (Rat) 6500 mg/kg (Rabbit)		>25.5 mg/L(Rat)4 h	
Toxicologically Synergistic No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure							
Irritation Irritating to eyes							
Sensitization		No information avail	able				
Carcinogenicity		The table below indi	icates whether e	ach agency has lis	ted any ingredient	as a carcinogen.	
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico	
Methylpropyl ketone	107-87-9	9 Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information avail	able				
Reproductive Effects	6	No information avail	No information available.				
Developmental Effec	ts	No information avail	able.				
Teratogenicity		No information avail	able.				
	STOT - single exposure None known STOT - repeated exposure None known						
Aspiration hazard		No information avail	able				
Symptoms / effects, delayed	ymptoms / effects,both acute and No information available elayed						
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	

g6h flow-through (Pimephales promelas) Persistence and Degradability Persistence is unlikely Bioaccumulation/ Accumulation No information available. Mobility Will likely be mobile in the environment due to its water solubility. Component log Pow Methylpropyl ketone 0.91 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. DOT UN1249 Proper Shipping Name METHYL PROPYL KETONE Hazard Class 3 Packing Group I UN-No UN1249 Proper Shipping Name METHYL PROPYL KETONE Hazard Class 3 Packing Group I UN-No UN1249 Proper Shipping Name METHYL PROPYL KETONE Hazard Class 3 Packing Group I UN-No UN1249 Proper Shipping Name METHYL PROPYL KETONE Hazard Class 3 Pa					
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Packing Group			PROPYL KETONE		
		-			
15. Regulatory information	Packing Group				
		15.	Regulatory inform	nation	

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Methylpropyl ketone	107-87-9	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
Methylpropyl ketone	107-87-9	Х	-	203-528-1	Х	Х	Х	Х	Х	KE-28009

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
OSHA - 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

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Methylpropyl ketone	Х	Х	Х	-	Х
U.S. Department of Transportation					

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

Serious risk, Grade 3

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)
Methylpropyl ketone	107-87-9	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)
Methylpropyl ketone	107-87-9	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	26-Nov-2010
Revision Date	24-Dec-2021
Print Date	24-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