

synerzine Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/16/2015 Version: 1.0

SECTION 1: Identification				
1.1. Identification				
Product form	: Substance			
Substance name	: Cyclohexanone, 2-methyl-5	-(1-methylethyl)-		
CAS-No.	: 59471-80-6			
Product code	: (US) W219			
Formula	: C10H18O			
Synonyms	: p-Menthan-2-one / 2-Methy	vl-5-isopropylcyclohexand	one	
1.2. Recommended use and restricti	· · ·			
No additional information available				
1.3. Supplier				
Synerzine				
5340 Hwy 42 S				
Ellenwood, Georgia 30294 - USA				
T 404-524-6744 - F 404-577-1651 info@synerzine.com - www.synerzine.com				
1.4. Emergency telephone number				
Emergency number	: Infotrac 1-800-535-5053 (C	Contract# 102471) Dial +1	-352-323-3	500 when outside the US
SECTION 2: Hazard(s) identification	on			
2.1. Classification of the substance				
GHS-US classification				
Flammable liquids Category H227	Combustible liquid			
4	1 <b>1</b>			
Full text of H statements : see section 16				
2.2. GHS Label elements, including j	precautionary statements			
GHS-US labeling				
Signal word (GHS-US)	: Warning			
Hazard statements (GHS-US)	: H227 - Combustible liquid			
Precautionary statements (GHS-US)	: P210 - Keep away from hea	t, hot surfaces. sparks. one	en flames an	d other ignition sources. No
	smoking. heat, hot surfaces,	, open flames, sparks		
	P280 - Wear eye protection			
	P370+P378 - In case of fire: P403+P235 - Store in a well		, ,	o extinguish.
	P501 - Dispose of contents/			sal plant
2.3. Other hazards which do not res	ult in classification			
No additional information available				
2.4. Unknown acute toxicity (GHS U	S)			
Not applicable				
SECTION 3: Composition/Informa	tion on ingredients			
3.1. Substances				
Name		Product identifier	%	GHS-US classification
- Humber			98 - 100	Flam. Liq. 4, H227
Cyclohexanone, 2-methyl-5-(1-methylethyl)-		[(LAS-NO.] 59471-80-6		
Cyclohexanone, 2-methyl-5-(1-methylethyl)- (Main constituent)		(CAS-No.) 59471-80-6	50 100	1 Iani. Eiq. 7, 11227
	section 16	(LAS-N0.J 594/1-80-6	50 100	1 Iani. Diq. 4, 11227

Not applicable

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SECTION 4: First-aid measures	
4.1. Description of first aid measu	ires
First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>Remove person to fresh air and keep comfortable for breathing.</li> <li>Wash skin with plenty of water.</li> <li>Rinse eyes with water as a precaution.</li> <li>Call a poison center/doctor/physician if you feel unwell.</li> </ul>
4.2. Most important symptoms an	d effects (acute and delayed)
No additional information available	
4.3. Immediate medical attention	and special treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measu	es
5.1. Suitable (and unsuitable) ext	inguishing media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from	the chemical
Fire hazard	: Combustible liquid.
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
5.3. Special protective equipment	and precautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release n	neasures
6.1. Personal precautions, protect	tive equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for con	tainment and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storag	e
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, i	ncluding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
SECTION 8. Exposure controls/n	

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

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8.2. Appropriate engineering contro	bis
Appropriate engineering controls Environmental exposure controls	<ul><li>Ensure good ventilation of the work station.</li><li>Avoid release to the environment.</li></ul>
8.3. Individual protection measures	/Personal protective equipment

### Hand protection:

Protective gloves

### Eye protection:

Safety glasses

### Skin and body protection:

Wear suitable protective clothing

### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemi	cal properties
9.1. Information on basic physica	
Physical state	: Liquid
Appearance	: A colorless to pale yellow liquid.
Color	: colorless to pale yellow
Odor	: minty aroma herbal
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 109 °C
Flash point	: 180 °F TCC
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 0.898 - 0.905 g/cm <sup>3</sup>
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
2 Other information	

9.2. Other information

### No additional information available

### SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

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### 10.3. Possibility of hazardous reactions No dangerous reactions known under normal conditions of use.

# 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

11.1.	Information on toxicological ef	fec	ts
Acute to:	kicity	:	Not classified
Skin cori	osion/irritation	:	Not classified
Serious e	eye damage/irritation	:	Not classified
Respirat	ory or skin sensitization	:	Not classified
Germ cel	l mutagenicity	:	Not classified
Carcinog	enicity	:	Not classified
Reprodu	ctive toxicity	:	Not classified
Specific t	arget organ toxicity – single exposure	:	Not classified
Specific	arget organ toxicity – repeated exposure	:	Not classified
Aspiratio	on hazard	:	Not classified

### SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

### No additional information available 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

# SECTION 13: Disposal considerations 13.1. Disposal methods Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions. SECTION 14: Transport information Department of Transportation (DOT) In accordance with DOT Transport document description : NA1993 Combustible liquid, n.o.s., 3, III UN-No.(DOT) : NA1993

: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

- UN-No.(DOT) Proper Shipping Name (DOT) Class (DOT)
- EN (English US)

: Combustible liquid, n.o.s.

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Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	<ul> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>T1 - 1.5 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
Transportation of Dangerous Goods	

### Transport by sea

### Air transport

15.1. US Federal regulations	
Cyclohexanone, 2-methyl-5-(1-methylethyl)- (59471-80-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

### 15.2. International regulations

### CANADA

Cyclohexanone, 2-methyl-5-(1-methylethyl)- (59471-80	
	Listed on the Canadian NDSL (Non-Domestic Substances List)

### **EU-Regulations**

No additional information available

### National regulations

Cyclohexanone, 2-methyl-5-(1-methylethyl)- (59471-80-6)
---------------------------------------------------------

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

### 15.3. US State regulations

No additional information available

### SECTION 16: Other information

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H227	Combustible liquid
NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA fire hazard	: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: B
	B - Safety glasses, Gloves

### Synerzine US

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product