

1-Methylcyclopentanol Safety Data Sheet 2201101 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/17/2018 Version: 1.0

SECTION 1: Identification			
1.1. Identification	Ochatara		
Product form	: Substance		
Substance name	: 1-Methylcyclopentanol		
CAS No	: 1462-03-9		
Product code	: 2201-1-01		
Formula	: C6H12O		
Synonyms	: 1-Hydroxy-1-methylcyclope	ntane; 1-Methyl-1-cyclopentanol; 1-Methylcyclope	entan-1-ol
Other means of identification	: MFCD00001364		
1.2. Relevant identified uses of the su	ubstance or mixture and uses ad	vised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and dev	elopment	
1.3. Details of the supplier of the safe	ety data sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs. 1.4. Emergency telephone number			
	: (844) 523-4086 (3E Compa	py Account 10060)	
Emergency number	. (844) 523-4086 (3E Compa	ny - Account 10069)	
SECTION 2: Hazard(s) identification	on		
2.1. Classification of the substance of	or mixture		
Classification (GHS-US)			
Skin Irrit. 2     H315 - Causes skin irr       Eye Dam. 1     H318 - Causes seriou:       STOT SE 3     H335 - May cause res       Full text of H-phrases: see section 16	s eye damage		
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	: GHS02 GHS05	GHS07	
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	<ul> <li>H228 - Flammable solid</li> <li>H302 - Harmful if swallowe</li> <li>H315 - Causes skin irritation</li> <li>H318 - Causes serious eye</li> <li>H335 - May cause respiration</li> </ul>	n damage	
Precautionary statements (GHS-US)	<ul> <li>P210 - Keep away from he P240 - Ground/bond conta P241 - Use explosion-proo P261 - Avoid breathing dus P264 - Wash skin thorough P270 - Do not eat, drink or P271 - Use only outdoors of P280 - Wear protective glo P301+P312 - If swallowed: P302+P352 - If on skin: Wa P304+P340 - If inhaled: Re</li> </ul>	at/sparks/open flames/hot surfaces. No smoking ner and receiving equipment electrical/ventilating/lighting equipment t, mist, spray ly after handling smoke when using this product	ou feel unwell r breathing
07/17/2018	EN (English US)	SDS ID: 2201101	Page 1

# **1-Methylcyclopentanol** Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	lenses, if present and easy to do. Continu P310 - Immediately call a POISON CENT P321 - Specific treatment (see supplemen P330 - Rinse mouth P332+P313 - If skin irritation occurs: Get P362+P364 - Take off contaminated cloth P370+P378 - In case of fire: Use dry sand P403+P233 - Store in a well-ventilated pl P405 - Store locked up P501 - Dispose of contents/container to a	ER or doctor/ physi ntal first aid instructi medical advice/atte ning and wash it bef d, dry chemical or a ace. Keep containe	ons on this label) ntion ore reuse lcohol-resistant foam to extinguish r tightly closed
2.3. Other hazards No additional information available			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/informati	on on ingredients		
3.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
1-Methylcyclopentanol (Main constituent)	(CAS No) 1462-03-9	<= 100	Flam. Sol. 1, H228 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
Full text of H-phrases: see section 16			
3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
1.1. Description of first aid measures			
First-aid measures general	: In case of accident or if you feel unwell, s where possible). Move the affected perso		
First-aid measures after inhalation	: Remove person to fresh air and keep con respiration. Get immediate medical advice	nfortable for breathi	
First-aid measures after skin contact	: Wash with plenty of soap and water. Get	immediate medical	advice/attention.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with w present and easy to do. Continue rinsing.	Get immediate me	dical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give any mouth out with water. Get immediate med		
4.2. Most important symptoms and effe	ects, both acute and delayed		
Symptoms/injuries	: The most important known symptoms and 2.2) and/or in section 11.	d effects are describ	ed in the labelling (see section
•	al attention and special treatment needed		
Freat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. D appropriate for surrounding fire.	ory powder. Water s	pray. Use extinguishing media
5.2. Special hazards arising from the s			
ire hazard	: Thermal decomposition generates: Carbo		
Explosion hazard	: When mixed with air and exposed to an ig explode if confined. Risk of explosion if he cooling exposed containers. May form fla	eated under confine	ment. Use water spray or fog for
3.3. Advice for firefighters			
J.J. Auvice for menginers			
Firefighting instructions	: In case of fire: Evacuate area. Fight fire re	emotely due to the I	isk of explosion.

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 6: Accidental release meas	
6.1. Personal precautions, protective equ	
General measures	<ul> <li>Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust. Do not breathe gas, fumes, vapor or spray.</li> </ul>
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
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".
Emergency procedures	: Avoid raising dust. Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.
6.2. Environmental precautions	
Avoid release to the environment. Notify authoritie	es if product enters sewers or public waters.
6.3. Methods and material for containme	nt and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for cleaning up	: Minimize generation of dust. Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: When mixed with air and exposed to an ignition source, dust may burn in the open air or explode if confined. Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, includin	g any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. **Control parameters**

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

## 1-Methylcyclopentanol Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 9: Physical and chemica			
9.1. Information on basic physical and			
Physical state	: Solid		
	: Low melting solid.		
Appearance Color	: No data available		
Odor	: No data available		
Odor threshold	: No data available		
pH Malting point	: No data available : 36 - 37 °C		
Melting point			
Freezing point	: No data available		
Boiling point	: 135 - 136 °C		
Flash point	: 41 °C		
Relative evaporation rate (butyl acetate=1)	: No data available		
Flammability (solid, gas)	: No data available		
Explosion limits	: No data available		
Explosive properties	: No data available		
Oxidizing properties	: No data available		
Vapor pressure	: No data available		
Relative density	: No data available		
Relative vapor density at 20 °C	: No data available		
Specific gravity / density	: 0.904 g/ml (@ 25 °C)		
Molecular mass	: 100.1589 g/mol		
Solubility	: No data available		
Log Pow	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Viscosity	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
9.2. Other information Refractive index	: 1.4466 (@ 16 °C)		
SECTION 10: Stability and reactivity	ty		
10.1. Reactivity			
No additional information available			
10.2. Chemical stability			
The product is stable at normal handling and s	storage conditions.		
10.3. Possibility of hazardous reactions	5		
No additional information available			
10.4. Conditions to avoid			
Keep away from heat, sparks and flame.			
10.5. Incompatible materials			
Acids. Acid chlorides. Acid anhydrides. Strong oxidizing agents.			
10.6. Hazardous decomposition produc	10.6. Hazardous decomposition products		
Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.			
SECTION 11: Toxicological information	ation		
11.1. Information on toxicological effec			
Acute toxicity	: Oral: Harmful if swallowed.		

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

1-Methylcyclopentanol (1462-03-9)	
ATE US (oral)	500.000 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECT	ION 12: Ecological information
12.1.	Toxicity
No addi	tional information available
12.2.	Persistence and degradability
No addi	tional information available
12.3.	Bioaccumulative potential
No addi	tional information available
12.4.	Mobility in soil
No addi	tional information available
12.5.	Other adverse effects
No addi	tional information available

ve to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
se of contents/container in accordance with licensed collector's sorting instructions.
the material as far as possible.
5

#### Department of Transportation (DOT)

In accordance with DOT Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols : UN1325 Flammable solids, organic, n.o.s., 4.1, II

: UN1325

: Flammable solids, organic, n.o.s.

- : 4.1 Class 4.1 Flammable Solid 49 CFR 173.124
- : 4.1 Flammable solid



: II - Medium Danger

: 212

- : 240
- : G Identifies PSN requiring a technical name

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT Special Provisions (49 CFR 172.102)		A1 - Single packaging are not permitted on passenger aircraft. IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle. IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner. T3 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	:	151
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	15 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	50 kg
DOT Vessel Stowage Location		B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Other information	:	No supplementary information available.
TDG		
No additional information available		
Transport by sea UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) Packing group (IMDG)	:	1325 FLAMMABLE SOLID, ORGANIC, N.O.S. 4.1 - Flammable solids, self-reactive substance and solid desensitized explosives II - substances presenting medium danger
Air transport		4005
UN-No. (IATA) Proper Shipping Name (IATA)		1325 Flammable solid, organic, n.o.s.
Class (IATA)		4.1 - Flammable solids
Packing group (IATA)		II - Medium Danger
SECTION 15: Regulatory information	ו	

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

1-Methylcyclopentanol CAS	5 No 1462-03-9	100%
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This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2. International regulations

CANADA No additional information available

#### EU-Regulations No additional information available

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **National regulations**

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

#### **SECTION 16: Other information**

#### Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Sol. 1	Flammable solids Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H228	Flammable solid
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation

NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.	
NFPA fire hazard	: 3 - Liquids and solids that can be ignited under almost all ambient conditions.	
NFPA reactivity	: 3 - Capable of detonation or explosive reaction, but requires a strong initiating source or must be heated under confinement before initiation, or reacts explosively with water.	
HMIS III Rating		
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given	
Flammability	: 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)	
Physical	: 3 Serious Hazard - Materials that may form explosive mixtures with water and are capable of detonation or explosive reaction in the presence of a strong initiating source. Materials may polymerize, decompose, self-react, or undergo other chemical change at normal temperature and pressure with moderate risk of explosion	

#### SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.