

Safety Data Sheet 2229169

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/01/2015 Version: 1.0

Formula : C9H14Q3 Synonyms : Methyl 2-xxo-4,4-dimethylcyclopentanecarboxylate; 4,4-Dimethylacid, methyl ester 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 1.3. Details of the supplier of the safety 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.com 1.4. Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture Classification (GHS-US) Skin Irrit. 2 H315 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irritation SynOr ST S 3 H335 - May cause respiratory irritation Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	/l-2-oxocyclopentanecarboxylic
Substance name : Methyl 4,4-dimethyl-2-oxocyclopentanecarboxylate CAS No : 60585-44-6 Product code : 2229-1-69 Formula : C9H14O3 Synonyms : Methyl 2-oxo-4,4-dimethylcyclopentanecarboxylate; 4,4-Dimethylacid, methyl ester 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 1.3. Details of the supplier of the safety data sheet SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 Tiof@ synquestlabs.com 1.4. 1.4. Emergency telephone number Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(S) identification 2.1. Classification of the substance or mixture Classification (GHS-US) Skin Irrit. 2 Skin Irrit. 2 H319 - Causes skin irritation Eye Irrit. 2A H319 - Causes serious eye irritation STOT SE 3 H335 - May cause respiratory irritation Full text of H-phrases: see section 16 2.2. Label elements	/l-2-oxocyclopentanecarboxylic
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GHS-US labeling	
GHS07	
Signal word (GHS-US) : Warning	
Hazard statements (GHS-US) H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation	
Precautionary statements (GHS-US) : P261 - Avoid breathing fumes, mist, spray, vapors P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep cor P305+P351+P338 - If in eyes: Rinse cautiously with water for set lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel u P321 - Specific treatment (see supplemental first aid instructions P332+P313 - If skin irritation occurs: Get medical advice/attentio P337+P313 - If skin irritation persists: Get medical advice/attentio	omfortable for breathing everal minutes. Remove contac inwell s on this label)
P403+P233 - Store in a well-ventilated place. Keep container tig P405 - Store locked up	reuse

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P501 - Dispose of contents/container to an approved waste disposal plant

No additional information available Via Unknown acute toxicity (GHS US) Via applicable SECTION 3: Composition/information on ingredients Stature type : Mono-constituent Name Product identifier % Classification (GHS-US) Stature type : Mono-constituent Stature type Via advisor operations (CAB Noi 60085-46-6 en 100 Stature (SA Noi 50085-46-6 Via advisor operations (CAB Noi 60085-46-6 en 100 Stature (SA Noi 50085-46-6 Via advisor operations (CAB Noi 60085-46-6 en 100 Stature (SA Noi 50085-46-6 Via advisor operations : Classification (GHS-US) Stature (SA Noi 50085-46-6 Via advisor operations : Classification (GHS-US) Stature (SA Noi 50085-46-6 Via advisor operations : Remove pance to theat advisor operation (GHS-US) Stature (SA Noi 50085-46-6		F 301	- Dispose of contents/container to an ap	proved waste di	
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Name Product identifier % Classification (GHS-US) Mathyl 4-4 dmethyl-2-xxxcyclopentanecarboxylate UCAS No. 00595-44-8 cm 100 Sin Inft. 2, H315 Evel Int. 4.4 dmethyl-2-xxxcyclopentanecarboxylate UCAS No. 00595-44-8 cm 100 Sin Inft. 2, H315 Full text of H-phrases: see section 16 Stor SE 2, H333 Stor SE 2, H333 Stor Applicable Stor SE 2, H333 Stor SE 2, H333 Stor Applicable Stor SE 2, H333 Stor SE 2, H333 Stor Applicable Stor SE 2, H333 Stor SE 2, H333 Stor Applicable Stor SE 2, H333 Stor SE 2, H333 Stor Applicable Stor SE 2, H333 Stor SE 2, H333 Stor Applicable Stor SE 2, H333 Stor SE 2, H333 Stor Applicable Stor SE 2, H333 Stor SE 2, H333 Stor Applicable Stor SE 2, H333 Stor SE 2, H333 Stor Applicable Stor SE 2, H333 Stor SE 2, H333 Stor Applicable Stor SE 2, H333 Stor SE 2, H333 Stor Applicable Stor SE 2, H333 Stor SE 2, H333 Stor Applicable Stor SE 2, H333 Stor SE 2, H333 <td>3.1. Substance</td> <td></td> <td></td> <td></td> <td></td>	3.1. Substance				
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Other Socialized Eve Int. 2A, H313 UII text of H-phrases; see section 16 STOT SE 3, H335 VII text of H-phrases; see section 16 STOT SE 3, H335 2.2 Mixture Nixture Via applicable Stot SE 3, H335 SECTION 41: First ald measures In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area. Tirst-aid measures after inhisiation : In case of accident or if you feel unwell, seek medical advice/attention. Tirst-aid measures after inhisiation : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get medical advice/attention. Tirst-aid measures after eye contact : Wash with perv of soag and weter. Get medical advice/attention. Tirst-aid measures after injection : Do NOT indue vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention. Tirst-aid measures after injection : Do NOT indue and delayed Symptoms/injuries : The most important known symptoms and effects are described in the labelling (see section 2.2.2) and/or in section 11. 14.3 Indication of any immediate medical advice/attention. Statable extinguishing media : Alcohol resistant foam. Carbon dioxide. Dry pow	Name		Product identifier	%	Classification (GHS-US)
3.2. Mixture Vot applicable SECTION 44. First aid measures First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affacted personnel away from the contaminated area. First-aid measures after inhalation : Remove person to tresh air and keep comfortable for breathing. If not breathing, give artificial respiration. First-aid measures after skin contact : Wash with plenty of soap and water. Get medical advice/attention. First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rnsing. Get medical advice/attention. First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention. First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/injuries : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11. 5.3. Advice for firefighting meala : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. 5.5. Section Asards arising from the substance or mixture : Do not attempt to takke acti			(CAS No) 60585-44-6	<= 100	Eye Irrit. 2A, H319
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6.3. Methods and material for containment and cleaning up					
	Stop leak if safe to do so. Avoid release to the en	vironmer	nt. Notify authorities if product enters sew	ers or public wa	aters.
For containment : Dike for recovery or absorb with appropriate material.	6.3. Methods and material for containment	nt and c	eaning up		
	For containment	: Dike t	or recovery or absorb with appropriate m	aterial.	

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according to Federal Register / Vol. 77, No. 58 / Monda	ay, March 26, 2012 / Rules and Regulations
Methods for cleaning up	: 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.
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	
Precautions for safe handling	Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.
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, inclu	ding any incompatibilities
Storage conditions	: Keep container tightly closed.
Storage area	: Store in dry, cool, well-ventilated area.
SECTION 8: Exposure controls/per	rsonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	Ensure good ventilation of the work station. Emergency are used for station and enfortune
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.
	: Protective gloves.
Hand protection	
Hand protection Eye protection	: Chemical goggles or safety glasses. Face shield.
	Chemical goggles or safety glasses. Face shield.Wear suitable protective clothing.
Eye protection	
Eye protection Skin and body protection Respiratory protection	Wear suitable protective clothing.In case of insufficient ventilation, wear suitable respiratory equipment.
Eye protection Skin and body protection Respiratory protection SECTION 9: Physical and chemica	 Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. I properties
Eye protection Skin and body protection Respiratory protection SECTION 9: Physical and chemica 9.1. Information on basic physical and	Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Iproperties chemical properties
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Eye protection Skin and body protection Respiratory protection SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Color Odor Odor Odor threshold pH Melting point Freezing point	 Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. I properties chemical properties Liquid No data available
Eye protection Skin and body protection Respiratory protection SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Color Odor Odor Odor threshold pH Melting point Freezing point Boiling point	 Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. I properties I chemical properties Liquid No data available
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Eye protection Skin and body protection Respiratory protection SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Color Odor Odor Odor threshold pH Melting point Freezing point Boiling point Flash point Relative evaporation rate (butyl acetate=1)	 Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. I properties chemical properties Liquid No data available So data available No data available
Eye protection Skin and body protection Respiratory protection SECTION 9: Physical and chemical 9.1. Information on basic physical and Physical state Color Odor Odor Odor threshold pH Melting point Freezing point Boiling point Flash point Relative evaporation rate (butyl acetate=1) Flammability (solid, gas)	 Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. I properties I chemical properties Liquid No data available So data available So data available No data available
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according to Federal Register / Vol. 77, No. 58 / Monday	, March 26, 2012 / Rules and Regulations
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and sto	prage conditions.
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
Exclude sources of heat, sparks and open flame	e. Extremely high temperatures.
10.5. Incompatible materials	
Strong oxidizing agents.	
10.6. Hazardous decomposition products	S
Under normal conditions of storage and use, ha fire, see Section 5.	zardous decomposition products should not be produced. Hazardous decomposition products in case of
SECTION 11: Toxicological information	tion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
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
SECTION 12: Ecological information	ì
12.1. Toxicity	
No additional information available	
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.	Waste treatment methods		
Waste tr	reatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.	

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Waste disposal recommendations

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT) In accordance with DOT

Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information		
15.1. US Federal regulations		
Methyl 4,4-dimethyl-2-oxocyclopentanecarboxylate (605	85-44-6)	
Not listed on the United States TSCA (Toxic Substances Co	ntrol Act) inventory	
All components of this product are listed, or excluded from lis Substances Control Act (TSCA) inventory except for:	sting, on the United States Environmer	ntal Protection Agency Toxic
Methyl 4.4-dimethyl-2-oxocyclopentanecarboxylate	CAS No 60585-44-6	100%

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

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:

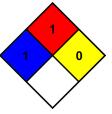
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

NFPA health	hazard
-------------	--------

: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard NFPA reactivity

- : 1 Must be preheated before ignition can occur.
- : 0 Normally stable, even under fire exposure conditions, and are not reactive with water.



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HMIS III Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
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.

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.