

# trans-4-(Methoxycarbonyl)cyclohexane-1carboxylic acid Safety Data Sheet 2223102

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/12/2017 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: trans-4-(Methoxycarbonyl)cyclol	exane-1-carboxylic acid	
CAS No	: 15177-67-0		
Product code	: 2223-1-02		
Formula	: C9H14O4		
Synonyms	(methoxycarbonyl)cyclohexane	ane-1-carboxylate; trans-1-Carboxy-4-	
Other means of identification	: MFCD01311247		
1.2. Relevant identified uses of the subst	ance or mixture and uses advise	d against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and develop	nent	
1.3. Details of the supplier of the safety d	ata 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			
1.4. Emergency telephone number		4 4 4 9 9 9 9	
Emergency number	: (844) 523-4086 (3E Company -	Account 10069)	
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or mi	vturo		
	xture		
Classification (GHS-US) Skin Irrit. 2 H315 - 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			
GHS-US labeling			
Hazard pictograms (GHS-US)			
	GHS07		
Signal word (GHS-US)	: Warning		
Hazard statements (GHS-US)	: H315 - Causes skin irritation H319 - Causes serious eye irrita H335 - May cause respiratory in		
Precautionary statements (GHS-US)	P261 - Avoid breathing dust, mis P264 - Wash skin thoroughly aff P271 - Use only outdoors or in a P280 - Wear protective gloves/p P302+P352 - If on skin: Wash w P304+P340 - If inhaled: Remove P305+P351+P338 - If in eyes: F lenses, if present and easy to do P312 - Call a POISON CENTER P321 - Specific treatment (see s P332+P313 - If skin irritation occ P337+P313 - If eye irritation per	t, spray er handling well-ventilated area rotective clothing/eye protection/face protection th plenty of soap and water e person to fresh air and keep comfortable for bre inse cautiously with water for several minutes. R	
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P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant

2.3.	Other hazards				
No addi	No additional information available				
2.4.	Unknown acute toxicity (GHS US)				
Not app	licable				
SECT	ION 3: Composition/information	on in	gredients		
3.1.	Substance		-		
Substar	nce type	: Mono	-constituent		
Name			Product identifier	%	Classification (GHS-US)
	-(Methoxycarbonyl)cyclohexane-1-carboxylic aci Instituent)	d	(CAS No) 15177-67-0	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Full text	of H-phrases: see section 16		· · · · · ·		
3.2.	Mixture				
Not app	licable				
SECT	ION 4: First aid measures				
4.1.	Description of first aid measures				
First-aid	measures general		se of accident or if you feel unwell, seek r		
First-aic	measures after inhalation	: Remo	possible). Move the affected personnel ove person to fresh air and keep comforta ration. Get medical advice/attention.	2	
First-aid	l measures after skin contact	: Wash	with plenty of soap and water. Get medi	cal advice/atten	tion.
First-aic	l measures after eye contact		diately flush eyes thoroughly with water f nt and easy to do. Continue rinsing. Get		
First-aic	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.				unconscious person. Rinse
4.2.	Most important symptoms and effect	s, both	acute and delayed		
Sympto	/mptoms/injuries : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.				
4.3.	Indication of any immediate medical	attentio	n and special treatment needed		
Treat sy	mptomatically.				
SECT	ION 5: Firefighting measures				
5.1.	Extinguishing media				
Suitable	extinguishing media		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2.	Special hazards arising from the sub	stance	or mixture		
Fire haz	ard	: Therr	nal decomposition generates: Carbon ox	ides.	
5.3.	Advice for firefighters				
Firefight	ting instructions	: In cas	se of fire: Evacuate area.		
Protecti	on during firefighting		gas tight chemically protective clothing in actus. For further information refer to sect		
SECT	ION 6: Accidental release meas	ure <u>s</u>			
6.1.	Personal precautions, protective equ		and emergency procedures		
			uate unnecessary personnel. Ensure ade	quate air ventila	tion. Do not breathe dust.
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6.1.1. Emerge	1.1.       For non-emergency personnel         nergency procedures       : Only qualified personnel equipped with suitable protective equipment may intervene.				ipment may intervene.
6.1.2. For emergency responders					
Protecti	ve equipment		ot attempt to take action without suitable to section 8: "Exposure controls/personal		ment. For further information

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6.2. Environmental precautions	
Avoid release to the environment. Notify author	ities if product enters sewers or public waters.
6.3. Methods and material for containm	nent and cleaning up
For containment	: Stop leak if safe to do so.
Methods for cleaning up	. Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
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	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. 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, includ	ling any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.
SECTION & Expedition controls/man	construction
SECTION 8: Exposure controls/pers	sonal 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.
<b>SECTION 9: Physical and chemical</b>	properties
9.1. Information on basic physical and	chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 124 - 128 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
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

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Relative vapor density at 20 °C	: No data available			
Molecular mass	: 186.21 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				
No additional information available				
<b>SECTION 10: Stability and reactivity</b>				
10.1. Reactivity				
No additional information available				
10.2. Chemical stability				
The product is stable at normal handling and storage conditions.				
10.3. Possibility of hazardous reactions				
No additional information available				
10.4. Conditions to avoid				
Keep away from heat, sparks and flame.				
10.5. Incompatible materials				
Strong oxidizing agents.				
10.6. Hazardous decomposition products				
	ardous decomposition products should not be produced. Hazardous decomposition products in case of			
SECTION 11: Toxicological informati	ion			
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			

SECT	ION 12: Ecological information	on		
12.1.	Toxicity			
No add	itional information available			
12.2.	Persistence and degradability			
No add	itional information available			
12.3.	Bioaccumulative potential			
No add	itional information available			
12.4.	Mobility in soil			
No additional information available				
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#### 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consideratio	ns		
13.1. Waste treatment methods			
Waste treatment methods	: Remove to an	authorized incinerator equipped w	vith an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of con	tents/container in accordance wit	h licensed collector's sorting instructions.
Additional information	: Recycle the ma	aterial as far as possible.	
<b>SECTION 14: Transport information</b>			
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 informatio	n		
15.1. US Federal regulations			
All components of this product are listed, or ex Substances Control Act (TSCA) inventory exc		on the United States Environmen	tal Protection Agency Toxic
trans-4-(Methoxycarbonyl)cyclohexane-1-carb	oxylic acid	CAS No 15177-67-0	100%
This product or mixture does not contain a tox CFR §372.38(a) subject to the reporting requir and 40 CFR Part 372.			· · · · · · · · · · · · · · · · · · ·
15.2. International regulations			
CANADA No additional information available			
EU-Regulations No additional information available			
National regulations			
trans-4-(Methoxycarbonyl)cyclohexane-1-c	arboxylic acid (151	177-67-0)	
Listed on IECSC (Inventory of Existing Chemic	cal Substances Proc	duced or Imported in China)	
15.3. US State regulations			
California Proposition 65 - This product does	s not contain anv su	bstances known to the state of Ca	alifornia 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
	Skin Irrit. 2           STOT SE 3           H315           H319

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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	: 0 - Materials that will not burn.	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	
HMIS III Rating		
Health	: 2 Moderate Hazard - Temporary or minor injury may occur	
Flammability	: 0 Minimal Hazard - Materials that will not burn	
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.