

Safety Data Sheet 2223102 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Version: 1.0 Date of issue: 01/12/2017

SECTION 1: Identification			
1.1. Identification			
	Substance		
	trans-4-(Methoxycarbonyl)cyclohexane-1-ca	boxylic acid	
	15177-67-0		
Product code	2223-1-02		
	C9H14O4		
	Methyl trans-4-carboxycyclohexane-1-carbox	adata: trans 1 Carboxy 4	
	(methoxycarbonyl)cyclohexane	yiale, trans-1-Gaiboxy-4-	
Other means of identification :	MFCD01311247		
1.2. Relevant identified uses of the substa	nce 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 da	ta 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 telephone number			
Emergency number :	(844) 523-4086 (3E Company - Account 100	69)	
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or mix	ture		
Classification (GHS-US)			
Skin Irrit. 2H315 - Causes skin irritationEye Irrit. 2AH319 - Causes serious eye irritatioSTOT SE 3H335 - 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		
• • • •	H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation		
Precautionary statements (GHS-US)	P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventila P280 - Wear protective gloves/protective clo P302+P352 - If on skin: Wash with plenty of P304+P340 - If inhaled: Remove person to fi	thing/eye protection/face protection soap and water resh air and keep comfortable for breathing sly with water for several minutes. Remove conta insing hysician if you feel unwell first aid instructions on this label) dical advice/attention edical advice/attention	ct
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- P403+P233 Store in a well-ventilated place. Keep container tightly closed
- P405 Store locked up

Pt	501 - Dispose of contents/container to an ap	proved waste di	isposal plant
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/information on	ingredients		
3.1. Substance			
Substance type : Mo	ono-constituent		
Name	Product identifier	%	Classification (GHS-US)
trans-4-(Methoxycarbonyl)cyclohexane-1-carboxylic acid (Main constituent)	(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 applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
	case of accident or if you feel unwell, seek nere possible). Move the affected personnel		
	emove person to fresh air and keep comfort spiration. Get medical advice/attention.	able for breathin	g. If not breathing, give artificial
First-aid measures after skin contact : W	ash with plenty of soap and water. Get med	ical advice/atter	ition.
	mediately flush eyes thoroughly with water esent and easy to do. Continue rinsing. Get		
	NOT induce vomiting. Never give anything outh out with water. Get medical advice/atte		unconscious person. Rinse
4.2. Most important symptoms and effects, bo	th acute and delayed		
	ne most important known symptoms and effe 2) and/or in section 11.	ects are describe	ed in the labelling (see section
4.3. Indication of any immediate medical atten	tion and special treatment needed		
Treat symptomatically.	· ·		
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media : Al	cohol resistant foam. Carbon dioxide. Dry popriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the substant	ce or mixture		
	nermal decomposition generates: Carbon ox	ides.	
5.3. Advice for firefighters			
	case of fire: Evacuate area.		
5 5	ear gas tight chemically protective clothing i	n combination w	vith self contained breathing
	paratus. For further information refer to sec		
SECTION 6: Accidental release measures	3		
6.1. Personal precautions, protective equipme			
	vacuate unnecessary personnel. Ensure ade	equate air ventila	ation. Do not breathe dust.
6.1.1. For non-emergency personnel Emergency procedures : Or	nly qualified personnel equipped with suitab	e protective equ	uipment may intervene.
6.1.2. For emergency responders Protective equipment : Do	o not attempt to take action without suitable	protective equip	ment. For further information
	fer to section 8: "Exposure controls/persona		

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6.2. Environmental precautions	
Avoid release to the environment. Notify authorit	ties if product enters sewers or public waters.
6.3. Methods and material for containme	ent 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, includi	ng 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 8: Exposure controls/pers	onal 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical a	nd 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

10.1.	Reactivity
No additi	tional information available
10.2.	Chemical stability
The proc	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No additi	tional information available
10.4.	Conditions to avoid
Keep aw	vay from heat, sparks and flame.
10.5.	Incompatible materials

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		
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	

12.1.	Toxicity
No addit	tional information available
12.2.	Persistence and degradability
No addit	tional information available
12.3.	Bioaccumulative potential
No addit	tional information available
12.4.	Mobility in soil

Aspiration hazard

: Not classified

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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consideration	IS
13.1. Waste treatment methods	
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.
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

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic

Substances Control Act (ISCA) Inventory except for:		
trans-4-(Methoxycarbonyl)cyclohexane-1-carboxylic acid	CAS No 15177-67-0	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

trans-4-(Methoxycarbonyl)cyclohexane-1-carboxylic acid (15177-67-0)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

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

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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.