

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 15/12/2010

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Supersedes: 25/11/2013

Version: 3.0

CLM-1248

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SECTION 1: Identification of the s	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	: MALONIC ACID (1,3-13C2, 99%)
EC no	: 205-503-0 (Unlabeled)
CAS No	: 99524-14-8
Product code	: CLM-1248
Formula	: CH2(*COOH)2
Synonyms	: Propanedioic acid
1.2. Relevant identified uses of the s	substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Professional use
Industrial/Professional use spec	: For professional use only
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the saf	ety data sheet
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA	
USA: 1-800-322-1174 Int: 1-978-749-8000 cilsales@isotope.com www.isotope.com)
Emergency telephone number	
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)	
SECTION 2: Hazards identificatio	n
2.1. Classification of the substance of	or mixture
Classification according to Regulation (E	C) No. 1272/2008 [CLP]
Acute Tox. 4 (Oral) H302	
Eye Dam. 1 H318	
Full text of H-statements: see section 16	

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xn; R22 Xi; R41 Full text of R-phrases: see section 16

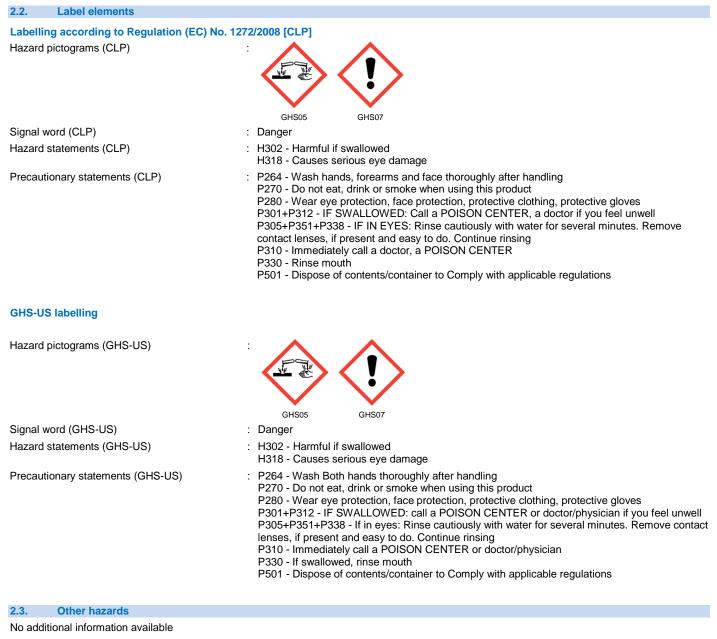
GHS-US classification

Acute Tox. 4 (Oral) H302 Eye Dam. 1 H318

Adverse physicochemical, human health and environmental effects Eyes, Skin.

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3.1. Substance			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
MALONIC ACID (1,3-13C2, 99%) (Main constituent)	(CAS No) 99524-14-8 (EC no) 205-503-0 (Unlabeled)	100	Xn; R22 Xi; R41
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
MALONIC ACID (1,3-13C2, 99%) (Main constituent)	(CAS No) 99524-14-8 (EC no) 205-503-0 (Unlabeled)	100	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

Full text of R- and H-statements: see section 16

Name	Product identifier	%	GHS-US classification
MALONIC ACID (1,3-13C2, 99%) (Main constituent)	(CAS No) 99524-14-8	100	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

Full text of H-statements: see section 16

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3.2 **Mixture** Not applicable SECTION 4: First aid measures 4.1. **Description of first aid measures** First-aid measures general : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. First-aid measures after inhalation If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician. First-aid measures after skin contact Wash with soap and plenty of water. Consult a physician. First-aid measures after eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth First-aid measures after ingestion with water. Consult a physician. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/injuries after inhalation : May be harmful if inhaled. May cause respiratory tract irritation. Symptoms/injuries after skin contact May be harmful if absorbed through skin. May cause skin irritation. Symptoms/injuries after eye contact Causes serious eye damage. Symptoms/injuries after indestion : Harmful if swallowed. 4.3. Indication of any immediate medical attention and special treatment needed No additional information available **SECTION 5: Firefighting measures Extinguishing media** 5.1. Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Special hazards arising from the substance or mixture 5.2. No additional information available Advice for firefighters 5.3. **Firefighting instructions** : Wear self contained breathing apparatus for fire fighting if necessary. Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. **SECTION 6: Accidental release measures** Personal precautions, protective equipment and emergency procedures 6.1. 6.1.1. For non-emergency personnel : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Emergency procedures Ensure adequate ventilation. Avoid breathing dust. 6.1.2. For emergency responders No additional information available 6.2. **Environmental precautions** Do not let product enter drains. Methods and material for containment and cleaning up 6.3. For containment : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Reference to other sections 6.4. No additional information available **SECTION 7: Handling and storage** Precautions for safe handling 7.1. Additional hazards when processed : Avoid contact with skin and eves. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Handle in accordance with good industrial hygiene and safety practice. Wash hands before Hygiene measures breaks and at the end of workday. 7.2. Conditions for safe storage, including any incompatibilities **Technical measures** : Keep container tightly closed in a dry and well-ventilated place. Storage conditions : Store at room temperature away from light and moisture. Specific end use(s) 7.3. No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls

Personal protective equipment

- : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
- : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Materials for protective clothing	: Wear suitable protective clothing and gloves.
Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear safety glasses with side shields (or goggles) and a face shield.
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	: When appropriate, use NIOSH/CEN approved respirator.
Environmental exposure controls	: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

91.1 Information on basic physical and chemical properties Physical state : Solid Appearance : Powder. Molecular mass : 106.05 g/mol (Labeled) Colour : White. Odour : White. Odour threshold : No data available Odour threshold : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : 132 · 135 °C (270 · 275 °F) · dec. Freezing point : No data available Boiling point : 172 °C (342 'F) - closed cup Auto-ignition temperature : No data available Decomposition temperature : No data available Planmability (solid, gas) : No data available Relative exapour density at 20 °C : No data available Relative density : 1.6 g/cm3 at 20 °C (68 °F) Solubility : No data available Log Pow : No data available Log Kow : No data available	elettert ett nyerear and eneme	
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9.2. Other information	Explosive limits	: 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

Stable if stored under recommended conditions.

Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
Bases, Oxidizing agents, Reducing agents.	
10.6. Hazardous decomposition products	
Carbon oxides (CO, CO2).	
SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity	: Harmful if swallowed.
MALONIC ACID (1,3-13C2, 99%) (99524-14-8)	
LD50 oral rat	1310 mg/kg Remarks: Behavioral:Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration: Dyspnea. Cyanosis.
LC50 inhalation rat (mg/l)	> 8989 mg/m³ 1 h
ATE CLP (oral)	1310.000 mg/kg bodyweight
Skin corrosion/irritation	: Skin - Rabbit Result: Mild skin irritation - 24 h
Serious eye damage/irritation	: Eyes - Rabbit Result: Severe eye irritaiton
Respiratory or skin sensitisation	: Not available
	No data available
Germ cell mutagenicity	: Rat - Morphological transformation.
Carcinogenicity	: Not classified
Reproductive toxicity	: Not available
Specific target organ toxicity (single exposure)	: Not classified
	No data available
Specific target organ toxicity (repeated exposure)	: Not classified
	No data available
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: May be harmful if absorbed through skin. May cause skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Harmful if swallowed.

SECTION 12: Ecological information	
12.1. Toxicity	
MALONIC ACID (1,3-13C2, 99%) (99524-14-8)	
LC50 fish 1	150 mg/l Lepomis macrochirus - 24 h
EC50 Daphnia 1	275 mg/l Daphnia magna (Water flea) - 48 h

12.2. Persistence and degradability	
MALONIC ACID (1,3-13C2, 99%) (99524-14-8)	
Persistence and degradability	Not available.
12.3. Bioaccumulative potential	
MALONIC ACID (1,3-13C2, 99%) (99524-14-8)	
Bioaccumulative potential	Not available.
12.4. Mobility in soil	
MALONIC ACID (1,3-13C2, 99%) (99524-14-8)	
Ecology - soil	Not available.
12.5. Results of PBT and vPvB assessment	

No additional information available

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12.6. Other adverse effects		
Other adverse effects	Not available.	
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Regional legislation (waste)	Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.	
Waste disposal recommendations	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.	
Ecology - waste materials	Dispose of as unused product.	
SECTION 14: Transport information		
In accordance with ADR / RID / IMDG / IATA / ADM	1	
14.1. UN number		
Not applicable		
14.2. UN proper shipping name		
Not applicable		
14.3. Additional information		
	No supplementary information available.	
	Not dangerous goods.	
Overland transport		
No additional information available		
Transport by sea		
No additional information available		
Air transport No additional information available		
14.4. Environmental hazards		
Other information :	No supplementary information available.	
14.5. Special precautions for user		
Special transport precautions	Not dangerous goods.	
14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		
Not applicable		
SECTION 15: Regulatory information		
15.1. US Federal regulations		
MALONIC ACID (1,3-13C2, 99%) (99524-14-8)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	

15.2. International regulations	
CANADA	
MALONIC ACID (1,3-13C2, 99%) (99524-14-8)	
Listed on the Canadian DSL (Domestic Substances List)	

Not subject to reporing requirements of the United States SARA Section 313

15.2.1. National regulations

No additional information available

SARA Section 313 - Emission Reporting

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15.3. US State regulations	
MALONIC ACID (1,3-13C2, 99%)(99524-14-8)	
State or local regulations	U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other information

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

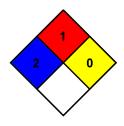
Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H302	Harmful if swallowed
H318	Causes serious eye damage
R22	Harmful if swallowed
R41	Risk of serious damage to eyes
Xi	Irritant
Xn	Harmful

NFPA health hazard

NFPA fire hazard NFPA reactivity

- : 2 Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
- : 1 Must be preheated before ignition can occur.
- : 0 Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health Flammability Physical

- : 2 Moderate Hazard Temporary or minor injury may occur
- : 1 Slight Hazard
- : 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

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