

Safety Data Sheet

Malonic Acid, Reagent

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Malonic Acid, Reagent

Synonyms/Generic Names: Propanedioic Acid, Carboxyacetic Acid

Product Number: 3305

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Columbus Chemical Industries, Inc.

N4335 Temkin Rd. Columbus, WI. 53925

For More Information: 920-623-2140 (Monday-Friday 8:00-4:30)

www.columbuschemical.com

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

Signal Words: Danger

Pictograms:



GHS Classification:

Acute toxicity, Oral	Category 4
Serious eye damage	Category 1

GHS Label Elements, including precautionary statements:

Hazard Statements:

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H302 Harmful if swallowed.		
H318 Causes serious eye damage.		

Precautionary Statements:

P264	Wash hands thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P280	Wear eye protection/face protection.	
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel	
	unwell.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove	
	contact lenses, if present and easy to do. Continue rinsing.	
P330	Rinse mouth.	
P501	Dispose of all contents/containers with local waste disposal plant.	

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Potential Health Effects

Eyes	Causes eye burns.	
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.	
Skin	Skin May be harmful if absorbed through skin. Causes skin irritation.	
Ingestion Harmful if swallowed.		

NFPA Ratings

Health	2
Flammability	0
Reactivity	0
Specific hazard	Not Available

HMIS Ratings

Health	2
Fire	0
Reactivity	0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS#	EINECS# / ELINCS#	Formula	Molecular Weight
Malonic Acid	>99	141-82-2	205-503-0	C ₃ H ₄ O ₄	104.06 g/mol

4. FIRST-AID MEASURES

Eyes	Rinse with plenty of water for at least 15 minutes and seek medical attention.		
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not		
	breathing, give artificial respiration. Get medical attention.		
Skin	Flush with plenty of water for at least 15 minutes and wash using soap. Get medical		
	attention.		
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If		
	conscious, wash out mouth with water. Get medical attention.		

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) Product is not flammable. Use appropriate media for adjacent f Cool unopened containers with water.		
Special protective equipment		
and precautions for firefighters clothing, including eye protection and boots.		
Specific hazards arising from Emits toxic fumes (carbon oxides) under fire conditions. (See also		
the chemical	Stability and Reactivity section)	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.	
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.	
Methods and materials for containment and cleaning up	r Pick up and arrange disposal without creating dust. Sweep up, and	

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7. HANDLING AND STORAGE

Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.

Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Isolate from oxidizing materials. Keep away from incompatible materials (see section 10 for incompatibilities).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: Contains no substances with occupational exposure limit values.

Personal Protection

Eyes	Wear chemical safety glasses.	
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an	
	approved respirator.	
Skin	Wear neoprene or nitrile gloves, protective clothing appropriate to the risk of exposure. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.	
Other	Not Available	

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	White, crystalline powder.
Odor	No odor
Odor threshold	Not Applicable
pH	Not Available
Melting point/freezing point	132-135°C (270-275°F)
Initial boiling point and boiling range	Not Available
Flash point	172°C (342°F) – Closed Cup
Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Explosive
Vapor pressure	Not Available
Vapor density	Not Available
Relative density	Not Available
Solubility (ies)	Soluble
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Not Available

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Incompatible Materials Bases, strong oxidizers, reducing agents.	
Hazardous Decomposition	Carbon oxides.
Products	

11. TOXICOLOGICAL INFORMATION

Acute Toxicity *Malonic Acid*

Skin	Skin - rabbit - Mild skin irritation - 24 h
Eyes	Eyes - rabbit - Severe eye irritation
Respiratory	LC50 Inhalation – rat – 1 hour - >8,989 mg/m ³
Ingestion	LD50 Oral - rat – 1,310 mg/kg

Carcinogenicity

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IARC	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Eyes	May cause eye irritation. Symptoms include eye burns, pain, watering eyes.
Inhalation	Toxic if inhaled, causes irritation. Symptoms may include coughing, shortness of breath, burning, choking, coughing, wheezing, laryngitis, shortness of breath, headache or nausea.
Skin	Contact causes redness, irritation, itching and pain. Prolonged or repeated skin exposure may cause dermatitis.
Ingestion	Repeated ingestion of small amounts may cause weakness, confusion, central nervous system effects, nausea and skin eruptions.

Chronic Toxicity	Not Available
Teratogenicity	Not Available
Mutagenicity	Genotoxicity in vivo - rat – Oral: Morphological transformation.
Embryotoxicity	Not Available
Specific Target Organ	Not Available
Toxicity	
Reproductive Toxicity	Not Available
Respiratory/Skin Sensitization	Not Available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate	LC50 - Lepomis macrochirus - 150 mg/l - 24 h	
Aquatic	EC50 - Daphnia magna (Water flea) - 275 mg/l - 48 h	
Invertebrate		
Terrestrial	Not Available	

Persistence and Degradability	Not Available
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available

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Other Adverse Effects	Not Available

13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container or residue.	
Product	Users should review their operations in terms of the applicable federal/national or	
Containers	local regulations and consult with appropriate regulatory agencies if necessary	
	before disposing of waste product container.	

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

US DOT	Not Dangerous Goods
TDG	Not Dangerous Goods
IMDG	Not Dangerous Goods
Marine Pollutant	No
IATA/ICAO	Not Dangerous Goods

15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA Active inventory.
DSL / NDSL	All ingredients are listed on the DSL inventory.
California Proposition 65	Not Listed
Rhode Island: Hazardous Substance List	Not Listed
Massachusetts: Toxic or Hazardous Substance List,	Not Listed
Right to Know	
Pennsylvania: Hazardous Substance List	Not Listed
New Jersey: Right to Know Hazardous Substance	Not Listed
List	
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Acute Health Hazard.
SARA 312	Acute Health Hazard.
SARA 313	Not Listed
WHMIS Canada	Not Listed

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16. OTHER INFORMATION

Revision	Date
Original	08/22/2011
Revision 1	05/28/2013
Revision 2	08/12/2014
Revision 3	08/23/2021

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