Methacrylic acid: sc-250313



MATERIAL SAFETY DATA SHEET

The Power to Question

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifiers 1.1

Product Name: Methacrylic acid sc-250313 **Product Number:**

Santa Cruz Biotechnology, Inc. Supplier:

2145 Delaware Avenue Santa Cruz, CA 95060 800.457.3801 or 831.457.3800

Emergency: ChemWatch

Within the US & Canada: 877-715-9305

Outside of US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 4), H227
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Dermal (Category 3), H311
Skin corrosion (Category 1A), H314
Serious eye damage (Category 1), H318
Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

H227 Combustible liquid H302 Harmful if swallowed. H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage. H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P210

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel P280 P301 + P312

unwell.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. P303 + P361 + P353

Rinse skin with water/ shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position P304 + P340

comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. P305 + P351 + P338

P310 Specific méasures (see supplemental first aid instructions on this label). P322

P361 Remove/Take off immediately all contaminated clothing.

P363

Wash contaminated clothing before reuse.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for P370 + P378

extinction.

P391 Collect spillage.

P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

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

Hazards not otherwise classified (HNOC) or not covered by GHS 2.3

Stench. Rapidly absorbed through skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Synonyms: 2-Methylpropenoic acid; 2-Methacrylic acid

Fórmula: C4H6O2 Molecular Weight: 86.09 g/mol CAS-No.: 79-41-4 201-204-4 EC-No.: Index-No.: 607-088-00-5

Hazardous components

Component Classification Concentration

2-Methylpropenoic acid

Flam. Liq. 4; Acute Tox. 4; Acute Tox. 3; Skin Corr. 1A; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1; H227, H302, H311, H314, H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eve contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eves during transport to hospital.

lf swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

Advice for firefighters 5.3

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 **Further information**

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8. **Environmental precautions**

6.2

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition. No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at 4 °C.

7.3 Specific end use(s)

no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis			
2-Methylpropenoic acid	79-41-4	TWA	20 ppm	USA. ACGIH Threshold Limit Values (TLV)			
	Remarks	Skin & eye irritation					
		TWA	20 ppm 70 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000			
		Skin notation					
		TWA	20 ppm 70 mg/m3	USA. NIOSH Recommended Exposure Limits			
		Potential for	Potential for dermal absorption				

Exposure Limits

Potential for dermal absorption

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form	liquid	Odor	no data
pH	2.0-2.2 at 100g/l at 20°C	Odor Threshold	no data
Melting/freezing point range	12-16°C - lit.	Initial boiling point/boiling range	163°C - lit.
Flash point	77°C - closed cup	Evaporation rate	no data
Flammability (solid, gas)	no data	Upper explosion limits	8.7 %(V)

1mmHg at 20°C 2.97 - (Air = 1.0) 1.015g/cm3 at 25°C Vapor pressure Lower explosion limits 1.6 %(V) Water solubility Vapor density no data Relative density Auto-ignition temperature no data Viscosity Decomposition temperature no data no data log Pow: 0.93 Explosive properties Partition coefficient: no data Oxidizing properties noctanol/water no data

Other safety information 9.2

Relative vapor density 2.97 - (Air = 1.0)

10. STABILITY AND REACTIVITY

Reactivity 10.1

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

Contains the following stabiliser(s):

Mequinol (>=200 - <=300 ppm) Possibility of hazardous reactions

no data available

Conditions to avoid 10.4

Heat, flames and sparks.

Incompatible materials 10.5

Amines, Strong bases, Strong acids, Oxidizing agents, Peroxides

Hazardous decomposition products

Other decomposition products - no data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - rat - 1,060 mg/kg Inhalation: no data available Dermal: no data available LD50 Dermal - rabbit - 500 mg/kg

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component 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 component 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 component of this product present at levels greater than or equal to 0.1% is identified as

a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as OSHA:

a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available **Aspiration hazard** no data available **Additional Information**

RTECS: OZ2975000

Signs and symptoms of exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. May cause cough, shortness of breath, headache, nausea.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence (Mequinol)

12. ECOLOGICAL INFORMATION

Toxicity 12.1

Toxicity to fish Toxicity to algae LC50 - Oncorhynchus mykiss (rainbow trout) - 85 mg/l - 96 h

IC50 - Pseudokirchneriella subcapitata (green algae) - 0.59 mg/l - 96 h

12.2 Persistence and degradability

no data available

12.3 **Bioaccumulative potential**

no data available

Mobility in soil no data available 12.4

Results of PBT and vPvB assessment 12.5

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 2531 Class: 8 Packing group: II

Proper shipping name: Methacrylic acid, stabilized

Reportable Quantity (RQ): Marine pollutant: No Poison Inhalation Hazard: No

IMDG

UN number: 2531 Packing group: II EMS-No: F-A, S-B Class: 8

Proper shipping name: METHACRYLIC ACID, STABILIZED

Marine pollutant: No

IATA

UN number: 2531 Class: 8 Packing group: II

Proper shipping name: Methacrylic acid, stabilized

15. REGULATORY INFORMATION

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

2-Methylpropenoic acid CAS-No. 79-41-4

Pennsylvania Right To Know Components

2-Methylpropenoic acid CAS-No. 79-41-4

New Jersey Right To Know Components

2-Methylpropenoic acid CAS-No. 79-41-4

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute toxicity Acute Tox.

Acute aquatic toxicity Aquatic Acute Aduatic Chronic Chronic aquatic toxicity Serious eye damage Eye Dam. Flam. Liq. Flammable liquids H227 Combustible liquid

Harmful if swallowed. Toxic in contact with skin. H302 H311 Causes severe skin burns and eye damage. Causes serious eye damage. H314 H318 Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects. H400 H410 Skin Corr.
HMIS Rating
Health hazard: Skin corrosion **Chronic Health Hazard:** Flammability:
Physical Hazard: 2 NFPA Rating Health hazard: 3 2 Fire Hazard: Reactivity Hazard: ō

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

8/29/2014