

Safety & Environmental Health

SIGMA-ALDRICH

Material Safety Data Sheet

Version 3.0 Revision Date 12/25/2008 Print Date 07/01/2010

1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: Kainic acid monohydrate

Product Number

K0250 Sigma

Brand

Company

Sigma-Aldrich

3050 Spruce Street

SAINT LOUIS MO 63103

USA

Telephone Fax

+18003255832 +18003255052

Emergency Phone #

(314) 776-6555

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

: 2-Carboxy-3-carboxymethyl-4-isopropenylpyrrolidine

Formula

: C10H15NO4 · H2O

Molecular Weight

: 231.25 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
2-Carboxy-4-(1-me	thylethenyl)-3-pyrrolidin	eacetic acid monohydrate	
58002-62-3			100

3. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Target Organ Effect

Target Organs

Nerves.

HMIS Classification

Health Hazard: Chronic Health Hazard:

Flammability: 0 0

Physical hazards:

NFPA Rating

00001546

0 Health Hazard: Fire: Reactivity Hazard: 0

Potential Health Effects

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Inhalation

May be harmful if inhaled. May cause respiratory tract irritation.

Skin

May be harmful if absorbed through skin. May cause skin irritation.

Eyes

May cause eye irritation.

Ingestion

May be harmful if swallowed.

4. FIRST AID MEASURES

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

Never give anything by mouth to an unconscious person. Rinse mouth with water.

5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point

Ignition temperature no data available

Sultable extinguishing media

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

no data available

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid dust formation.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: 2 - 8 ℃

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

For prolonged or repeated contact use protective gloves.

Eve protection

Safety glasses

Hygiene measures

General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form

solid

Safety data

рΗ

no data available

Melting point

245 - 247 °C (473 - 477 °F)

Boiling point

по data available

Flash point

no data available

Ignition temperature

no data available

Lower explosion limit

no data available

Upper explosion limit

no data available

Water solubility

no data available

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Irritation and corrosion

no data available

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Sensitisation

no data available

Chronic exposure

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:

NTP:

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.

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.

OSHA:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Potential Health Effects

Inhalation Skin

May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation.

Eyes

May cause eye irritation. May be harmful if swallowed.

Indestion **Target Organs**

Nerves:

12. ECOLOGICAL INFORMATION

Elimination Information (persistence and degradability)

no data available

Ecotoxicity effects

no data available

Further Information on ecology

no data available

13. DISPOSAL CONSIDERATIONS

Observe all federal, state, and local environmental regulations.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

Not dangerous goods

15. REGULATORY INFORMATION

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OSHA Hazards

Target Organ Effect

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

2-Carboxy-4-(1-methylethenyl)-3-pyrrolidineacetic acid monohydrate

58002-62-3

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

Chronic Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

CAS-No.

Revision Date

2-Carboxy-4-(1-methylethenyl)-3-pyrrolidineacetic acid monohydrate

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New Jersey Right To Know Components

CAS-No.

Revision Date

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California Prop. 65 Components

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

16. OTHER INFORMATION

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