



AOWEI AGRICULTURAL TECHNOLOGY CO., LTD.

SAFETY DATA SHEET

Revision date 22-Jan-2024

Revision Number 1

1. Identification

Chemical name: 2 - hydroxy acrylic acid

Chemical formula: $\text{CH}_3\text{CH}(\text{OH})\text{COOH}$

The relative molecular weight: 90.08

The CAS number: 50-21-5

Company information: see above

Trade name: lactic acid

Areas of application: food industry, animals with the food industry, pharmaceutical industry, chemical industry, chemical industry

supplier

AOWEI AGRICULTURAL TECHNOLOGY CO., LTD.

ADD: NO. 27 , CBD BUSINESS INNER RING ROAD , ZHENGDONG NEW DISTRICT, ZHENGZHOU ,CHINA

TEL: 0086-371-63229216

FAX: 0086-371-63229216

Emergency telephone number

Emergency Telephone

For Hazardous Materials or Dangerous Goods Incident

Spill, Leak, Fire Exposure, or

Accident Call CHEMTREC:

0086-371-63229216

2. The ingredients to confirm

This product is considered safe and non-toxic, and does not contain any hazardous ingredients. Ingredients: lactic acid aqueous solution (80%, 85%, 88%, 90%)



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3. The Dangerous Level

The main danger

-inhaled: inhalation of vapor may cause respiratory irritation.

-skin contact: may cause moderate irritation, including burning sensation, pain, skin to become red and swollen.

Eye contact: may cause eye injury.

4. The The first aid measures

- inhaled: transferred to the place with fresh air.

Skin contact: remove contaminated clothing and shoes. Wash skin with mild soap and water carefully.

Eye contact: rinse immediately with plenty of water. If the stimulation becomes serious, go to a doctor.

Wash eyes with clean water for 20 to 30 minutes, eyelid blinking and cleaning.

- ingestion: go to a doctor immediately.



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5. Fire prevention measures

Extinguishing media: all extinguishing medium can be used.

Cannot use the extinguishing media: no.

Around the fire treatment: use hydraulic or aerosol containers and equipment will contact cooling.

Special risk exposure: when heated, will produce high excitant gas, have influence on eyes.

Fire direction: wear is recommended to use protective equipment.

Special programs: be careful when a fire at the chemical processing.

6. Spill emergency treatment measures

Personnel protection: cleaning equipment should be equipped with the appropriate protective measures.

Environmental protection: to prevent the leakage to the sewer or public water supplies.

When overflow or leak: use appropriate waste container. Can use a small amount of leakage of lime slurry or carbonate neutralization with plenty of cold water. Any leaks must be cleaned immediately. Use absorbent collect these leaks.

7. Handling and storage

General principles: avoid any unnecessary contact.

Storage: install exhaust at the scene or common indoor ventilation in order to try to reduce the concentration of steam.

Stored in glass, stainless steel, plastic, or have a lining epoxy container.

Handling: before eating, drinking or smoking, and clean with mild soap and water after finishing

the work hand touching part and other. Ensure timely removed from the eyes, skin or clothing. When handling to comply with good industrial hygiene standard and safety operating rules.



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8. Contact control/personal protective measures

Respiratory protection: under normal circumstances and have adequate ventilation, do not need to wear any respiratory protective device.

Skin protection: wear is recommended to use protective equipment.

Eye protection: safety goggles or glass chemical goggles.

Industrial hygiene: wash before reuse.

Remove contaminated clothing and shoes.

In the processing site installation ventilation device to prevent the formation of steam.

9. Physical and chemical properties

Physical state: the density of its liquid

Color: colorless to pale yellow

Bouquet: characteristic odour

Taste: acid

PH:<2, under 25°C

The initial boiling point (°C):110-125 Decomposition temperature (°C):>200 Density (g/ml):1.19 to 1.25

Viscosity (mPa) s, under 25°C):5-60

Water solubility: completely dissolved Flash point (°C):no data

Explosion limit: no data

10 Stability and reactivity

Risk: under the condition of not usually dangerous.

After decomposition of dangerous product: when heated to decompose, release dangerous gases.

Avoid contact with the material: antioxidant.

Avoid conditions: maintain the temperature below 200 °C



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11. The toxicity data

Acute toxicity studies

Inhalation: inhalation of high temperature produced by lactic acid or lactic acid mist steam may cause irritation to the respiratory system.

Skin: mild to moderate skin irritation.

Eyes: may cause serious damage to the eyes. Oral LD50, rats (mg/kg) : 3730

LD50, rat oral (mg/kg) : 4875

LD50, rabbit percutaneous (mg/kg) : > 2000

Other: no carcinogenicity.

12. The ecological data

Ecological impact data

Daphnia acute toxicity values, the EC50 48 hours (240 mg/l) Algae values of acute toxicity, LC50 72 hours (72 mg/l)

Oxygen good chemical oxygen COD (0.90 mg/mg)
Oxygen good biological oxygen BOD (0.45 mg/mg)

Biodegradable property: this product can be biodegradable.

13. Waste disposal

Waste disposal: in a safe manner, in accordance with local and state laws and regulations.

Waste management program: empty containers must be careful cleaning with plenty of water, must first and when emptying collection tank.



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14. The transportation information

14.1 UN Number or ID Number

ADR/RID/ADN UN 3265
IMDG-Code UN 3265
ICAO-TI UN 3265

14.2 Transport hazard class(es)

ADR/RID/ADN 8
IMDG-Code 8
ICAO-TI 8

14.3 Packing group

ADR/RID/ADN III
IMDG-Code III
ICAO-TI III

14.4 Danger Labels



14.5 Environmental hazards

Non-environmentally hazardous acc. to the dangerous goods regulations



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15. Applicable laws and regulations

According to provisions of the European economic community Label/Symbol (s)

Irritation/excitant.

R37 material hazard classification/R Phrase (s) / 38 - are irritating to respiratory system and skin. R41 - could cause serious damage to the eyes.

Physical security classification/S Phrase (S) S24 - avoid contact with skin.

S26 - when in contact with the eyes, immediately with plenty of water to clean, and to seek medical guidance.

S37/39 - wear appropriate protective gloves and eye/face protection device.

Recognized as food additives, including the European economic community Numbers E270.

16. Other information

Further information: this product specifications and technical information can be obtained through distributors or sales and Marketing Department. This product safety specifications content and format in accordance with EEC commission directive 2001/58 / EC. Disclaimer: the content of the product safety specifications from the company that a reliable source. However, about the content of these information to provide the company with no guarantee, expression and hint. For the operation of this product, storage, utilization and disposal of used methods and environment is beyond the cognition of the company. Based on this reason not listed and other reasons, based on this product or related to this product for any operation, storage, utilization and disposal of losses, damages and expenses resulting from rising, the company is not liable, and the disclaimer. This product safety specifications for this product, and can only be used for this product. When this product is used for other products as it, can't apply this product safety specifications.

End of Safety Data Sheet