

SAFETY DATA SHEET

1. Identification of the substance/mixture and of the company/undertaking

Product Name:Acrylic acid CAS: 79-10-7 Application: Laboratory chemicals, Manufacture of substances Manufacturer: Sinopharm Chemical Reagent Co.,Ltd. No.52 Ning Bo Road, Shanghai 200002, China Fax: 86-021-6321403 Emergency Telephone: 86-0532-83889090 Email: sj_zjzx@sinopharm.com Website: http://www.reagent.com.cn MSDS No: SCRC CSDS79-10-7 Acrylic acid

2. Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 3) Acute toxicity, Oral (Category 4) Acute toxicity, Inhalation (Category 4) Acute toxicity, Dermal (Category 4) Skin corrosion/irritation (Category 1) Serious eye damage/eye irritation (Category 1) Specific target organ toxicity - single exposure (Category 3), Respiratory system Acute aquatic toxicity (Category 1) Label elements

Labelling according Regulation (EC) No 1272/2008



Signal word: Danger

Hazard statement(s):H226 Flammable liquid and vapour. H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. Precautionary statement(s):

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eve protection/ face protection.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. P305 + P351 + P338 + P310 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. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. not applicable

not applicable

Other hazards

none

3. Composition/information on ingredients Substance/Mixture: Substance

Component	CAS RN	Concentration
Acrylic acid	79-10-7	≤100

4. First aid measures Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

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. Consult a physician. In case of eve contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 Indication of any immediate medical attention and special treatment needed no data available

5. Firefighting measures

Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special hazards arising from the substance or mixture Carbon oxides Flash back possible over considerable distance. Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary. Further information No data available

6. Accidental release measures

$Personal \ precautions, \ protective \ equipment \ and \ emergency \ procedures$

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

Environmental precautions

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

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).

Reference to other sections

For disposal see section 13.

7. Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour 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.

Conditions for safe storage, including any incompatibilities

Store in cool place. 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. Hygroscopic. Storage class (TRGS 510): Flammable liquids **Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls/personal protection Control parameters

Components with workplace control parameters

MAC: No data available PC-STEL: No data available TLV-TWA: 2ppm PC-TWA: No data available TLV-C: No data available TLV-STEL: No data available **Exposure controls**

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Faceshield (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

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. 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. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact thesupplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose 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**

Do not let product enter drains.

9. Physical and chemical properties Information on basic physical and chemical properties

a) Appearance

- b) Odour
- c) Odour Thresholdd) pH
- e) Melting point/freezing point
- f) Initial boiling point and boiling range
- g) Flash point
- h) Evapouration rate

Form: liquid, clear Colour: colourless Stench. No data available 2.1(72.06g/L,H20,20°C) 13°C 139-141°C/760mmHg 123.8°F/51°C No data available

i) Flammability (solid, gas) No data available j) Upper/lower flammability or explosive limits 8 2 k) Vapour pressure 1.33 (39.9°C) 1) Vapour density 2.45 m) Relative density ρ (20)1.047-1.054g/mL n) Water solubility completely miscible o) Partition coefficient:noctanol/water 0.161~0.43 p) Auto-ignition temperature 360 No data available q) Decomposition temperature r) Viscosity No data available s) Explosive properties No data available t) Oxidizing properties No data available Other safety information No data available. 10. Stability and reactivity Reactivity No data available Chemical stability Stable under recommended storage conditions. Contains the following stabiliser(s): Mequinol (>=0.018 - <=0.02 %) Possibility of hazardous reactions No data available Conditions to avoid Heat, flames and sparks. Incompatible materials Strong oxidizing agents, Strong bases, Oxygen, Polymerizing initiators, Peroxides Hazardous decomposition products Other decomposition products - No data available In the event of fire: see section 5 11. Toxicological information Information on toxicological effects Acute toxicity LD50 Oral - Rat - 357 mg/kg LC50 Inhalation - Rat - male and female - 4 h - > 5.1 mg/l (OECD Test Guideline 403) Skin corrosion/irritation Skin - Rabbit Result: Causes severe burns. - 3 min (OECD Test Guideline 404) Serious eye damage/eye irritation Eves - Rabbit Result: Corrosive - 18 - 24 h Respiratory or skin sensitization Guinea pig Did not cause sensitisation on laboratory animals. Germ cell mutagenicity Laboratory experiments have shown mutagenic effects. Hamster ovary Result: negative Mouse - male and female Result: negative Carcinogenicity This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Acrylic acid) 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 Repeated dose toxicity Rat - male and female - Oral - NOAEL : 83 mg/kg - LOAEL : 250 mg/kg RTECS: AS4375000 burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Liver - Irregularities - Based on Human Evidence 12. Ecological information Toxicity Toxicity to algae static test EC50 - Desmodesmus subspicatus (green algae) - 0.205 mg/l - 72 h Toxicity to bacteria Persistence and degradability Biodegradability aerobic - Exposure time 28 d Result: 80 - 90 % - Readily biodegradable (OECD Test Guideline 301D) Bioaccumulative potential No data available Mobility in soil No data available Results of PBT and vPvB assessment No data available Other adverse effects Very toxic to aquatic life. No data available

13. Disposal considerations Waste treatment methods

Product Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. Transport information

UN number

ADR/RID:2218	IMDG:2218	IATA:2218
UN proper shipping name		
ADR/RID:ACRYLIC ACID, STABILIZED	IMDG:ACRYLIC ACID, STABILIZED	IATA:Acrylic acid, stabilized
Transport hazard class(es)		
ADR/RID:8(3)	IMDG:8(3)	IATA:8(3)
Packaging group		
ADR/RID:II	IMDG:II	IATA:II
Environmental hazards		
ADR/RID:yes	IMDG:yes	IATA:yes
Special precautions for user		

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no data available

15. Regulatory information

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture No data available

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16. Other information

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

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sinopharm Chemical Reagent Co.,Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.