

SAFETY DATA SHEET

2-Hydroxypropyl Acrylate

Linkchem(Anhui) New Materials Co., Ltd

• Prepared according to GB/T 17519 and GB/T 16483

SDS

Section 1 Product and Company Identification

> Product Identifier

Product Name 2-Hydroxypropyl Acrylate
Synonyms -
CAS No. 25584-83-2
EC No. 247-118-0
Molecular Formula C₆H₁₀O₃

> Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified Uses Please consult manufacturer.
Uses Advised Against Please consult manufacturer.

> Details of the Supplier of the Safety Data Sheet

Applicant Name Linkchem(Anhui) New Materials Co., Ltd
Application Address No.188 Huangguan Road, Anqing High-tech Zone
Applicant Post Code —
Applicant Telephone +86-556-5999028
Applicant Fax —
Applicant E-mail —
Supplier Name Linkchem(Anhui) New Materials Co., Ltd
Supplier Address No.188 Huangguan Road, Anqing High-tech Zone
Supplier Post Code —
Supplier Telephone +86-556-5999028
Supplier Fax —
Supplier E-mail —



> Emergency Phone Number

Emergency Phone Number +86-556-5999028

Section 2 Hazards Identification

Hazard class and label elements of the product according to GB30000 series:

> Emergency overview

Liquid. Toxic if swallowed. Toxic in contact with skin. SENSITISATION by skin contact. Risk of serious damage to eyes. Toxic by inhalation.

> GHS Hazard Class

Acute Toxicity – Oral	Category 3
Acute Toxicity – Dermal	Category 3
Skin Corrosion/Irritation	Category 1
Skin Sensitization	Category 1
Serious Eye Damage/Irritation	Category 1
Acute Toxicity – Inhalation	Category 3

> GHS Label Elements

Pictogram



Signal Word

Danger

> Hazard Statements

H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H331	Toxic if inhaled

> Precautionary Statements

Prevention

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash contact area thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection

Response

P312	Call a POISON CENTER/doctor, if you feel unwell.
P321	Specific treatment (see measures on this label).
P330	Rinse mouth.
P361	Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



Storage**P405**

Store locked up.

P403+P233

Store in a well-ventilated place. Keep container tightly closed.

Disposal**P501**

Dispose of contents/container in accordance with local/regional/national/international regulations.

> Hazard description**Physical and chemical hazards**

No information available

Health hazards**Inhaled**

Inhalation of vapours or aerosols (mists, fumes), generated by the product during the course of normal handling, may produce toxic effects. Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.

Ingestion

Toxic effects may result from the accidental ingestion of the product. Accidental ingestion of the product may be harmful to the health of the individual.

Skin Contact

The product may cause an allergic skin reaction following direct contact with the skin. The product can cause severe skin burns following direct contact with the skin. Toxic in contact with skin, systemic effects may result following absorption. Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.

Eye

The product can produce severe chemical burns to the eye following direct contact. If timely and appropriate treatment is not available, may cause permanent blindness. This product may cause temporary discomfort following direct contact with the eye.

Environmental hazards

Please refer to 12th chapter of SDS.

Section 3 Composition/Information on Ingredients

Component	Concentration (weight percent, %)	CAS No.	EC No.
2-Hydroxypropyl Acrylate	98	25584-83-2	247-118-0

Section 4 First Aid Measures

> Description of First Aid Measures**General Advice**

Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.

Eye Contact

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

Skin Contact

Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

Ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

Inhalation

Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

Protecting of First-aiders

Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

> Most Important Symptoms and Effects, both Acute and Delayed

- 1 Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material.
- 2 Remove all sources of ignition and increase ventilation.

- 3 Avoid contact with skin and eyes.
- 4 Avoid inhalation of vapor or mist.
- 5 Use personal protective equipment including respirator.

> Indication of Any Immediate Medical Attention and Special Treatment Needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

Section 5 Fire Fighting Measures

> Extinguishing Media

Suitable Extinguishing Media

Dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter or spread fire.

> Specific Hazards Arising from the Substance or Mixture

- 1 May emit poisonous fumes on fire.
- 2 Fire may produce irritating, poisonous or corrosive gases.
- 3 Containers may explode when heated.
- 4 Fire exposed containers may vent contents through pressure relief valves.
- 5 May expansion or decompose explosively when heated or involved in fire.

> Advice for Firefighters

- 1 As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6 Accidental Release Measure

> Personal Precautions, Protective Equipment and Emergency Procedures

- 1 Ensure adequate ventilation. Remove all sources of ignition.
- 2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 3 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

> Environmental Precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

> Methods and Materials for Containment and Cleaning Up

- 1 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Section 7 Handling and Storage

> Precautions for Handling

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.
- 5 Take precautionary measures against static discharges.

> Precautions for Storage

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/ hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

Section 8 Exposure Controls/Personal Protection**> Control Parameters****Occupational Exposure Limit Values**

No information available

Biological Limit Values

No information available

Monitoring Methods

- 1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- 2 GBZ/T 160 Determination of toxic substances in workplace air(Series effective standard)and GBZ/T 300 Determination of toxic substances in workplace air(Series standard).

> Engineering Controls

- 1 Ensure adequate ventilation, especially in confined areas.
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

> Personal Protection Equipment**Eye Protection**

Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).

Hand Protection

Wear protective gloves (such as butyl rubber) , passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.

Respiratory protection

If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.

Skin and Body Protection

Wear fire/flame resistant/retardant clothing and antistatic boots.

Section 9 Physical and Chemical Properties

Appearance: Colorless transparant liquid

Odor Threshold: No information available

Melting Point/Freezing Point (°C): -23.4

Flash Point (°C)(Closed Cup): 97

Odor: No information available

pH: No information available

Initial Boiling Point and Boiling Range (°C): 205.7

Evaporation Rate: No information available

Flammability: Not applicable**Vapor Pressure (KPa):** 4Pa**Relative Density(Water= 1):** 1.05**n-Octanol/Water Partition Coefficient:** 0.35**Decomposition Temperature (°C):** No information available**Upper/lower explosive limits[% (v/v)]:** Upper limit: No information available; Lower limit: 1.8**Relative Vapour Density(Air = 1):** 4.5**Solubility:** Miscible with water**Auto-Ignition Temperature(°C):** No information available**Kinematic Viscosity (mm²/s):** No information available

Section 10 Stability and Reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical Stability	Stable under proper operation and storage conditions.
Possibility of Hazardous Reactions	No information available
Conditions to Avoid	Incompatible materials, heat, flame and spark.
Incompatible Materials	No information available
Hazardous Decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 Toxicological Information

> Acute Toxicity

Component	CAS No.	LD ₅₀ (Oral)	LD ₅₀ (Dermal)	LC ₅₀ (Inhalation, 4h)
2-Hydroxypropyl Acrylate	25584-83-2	820mg/kg(Rat)	>1000mg/kg(Rat)	No information available

> Skin Corrosion/Irritation

Causes severe skin burns and eye damage(Category 1)(2-Hydroxypropyl Acrylate)

> Serious Eye Damage/Irritation

Causes serious eye damage(Category 1)(2-Hydroxypropyl Acrylate)

> Skin Sensitization

May cause an allergic skin reaction(Category 1)(2-Hydroxypropyl Acrylate)

> Respiratory Sensitization

No information available

> Germ Cell Mutagenicity

No information available

> Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	25584-83-2	2-Hydroxypropyl Acrylate	Not Listed	Not Listed

> **Reproductive Toxicity**

No information available

> **Reproductive Toxicity (Additional)**

No information available

> **STOT-Single Exposure**

No information available

> **STOT-Repeated Exposure**

No information available

> **Aspiration Hazard**

No information available

Section 12 Ecological Information

> **Acute Aquatic Toxicity**

No information available

> **Chronic Aquatic Toxicity**

No information available

> **Others**

Persistence and Degradability
Bioaccumulative Potential

No information available

Mobility in Soil

No information available

Results of PBT and vPvB Assessment

2-Hydroxypropyl Acrylate does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Section 13 Disposal Considerations

Waste Chemicals

Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.

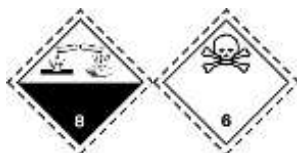
Contaminated Packaging Disposal

Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible. Refer to section 13.1 and 13.2.

Recommendations

Section 14 Transport Information

Transporting Label



Marine pollutant	None
UN Number	2922
UN Proper Shipping Name	CORROSIVE LIQUID, TOXIC, N.O.S.
Transport Hazard Class	8
Transport Subsidiary Hazard Class	6.1
Packing Group	II

Section 15 Regulatory Information

> International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
2-Hydroxypropyl Acrylate	✓	✓	✓	✓	✓	✓	✓	✓	✓

【EINECS】 European Inventory of Existing Commercial Chemical Substances.

【TSCA】 United States Toxic Substances Control Act Inventory.

【DSL】 Canadian Domestic Substances List.

【IECSC】 China Inventory of Existing Chemical Substances.

【NZIoC】 New Zealand Inventory of Chemicals.

【PICCS】 Philippines Inventory of Chemicals and Chemical Substances.

【KECI】 Existing and Evaluated Chemical Substances.

【AICS】 Australia Inventory of Chemical Substances.

【ENCS】 Existing And New Chemical Substances.

> Chinese chemical inventory

Component	A	B	C	D	E	F	G	H	I
2-Hydroxypropyl Acrylate	×	×	×	×	×	×	×	×	×

【A】 Catalog of Hazardous Chemicals(2015 Edition), Notice 5th 2015, China State Administration of Work Safety.

【B】Catalog of Priority Hazardous Chemicals for Environment Management, Notice 33th 2014, Ministry of Environmental Protection of PRC.

【C】 List of Toxic Chemicals Restricted in China, Notice 74th 2017, Ministry of Environmental Protection of PRC.

【D】 Catalog of Stupefacent and Psychotropic Substances(2013Edition), Notice 230th 2013, China Food and Drug Administration.

【E】Catalog of Hazardous Chemicals for Priority Management(First and Second batches), Notice 95th, 2011, Notice 12th 2013, China State Administration of Work Safety.

【F】List of Ozone Depletion Chemicals Controlled to be Imported/Exported in China (First to Sixth batches) , Notice from 2000 to 2012 Ministry of Environmental Protection of PRC.

【G】 Dangerous Chemicals Directory Used to Manufacture Exploder(2017 Edition), Notice 11th May 2017, Ministry of Public Security of PRC1.

【H】 Catalog of National Dangerous Wastes, Notice 39th 2016, Ministry of Environmental Protection of PRC.

【I】 Catalog of Highly Toxic Chemicals, Notice 142th 2003, China Ministry of Health.

Note

"√" Indicates that the substance included in the regulations

"×" That no data or included in the regulations

Section 16 Additional Information

Creation Date	2020/04/02
Revision Date	2020/04/02
Reason for Revision	-

> Disclaimer

This Safety Data Sheet (SDS) was prepared according to GB/T17519-2013 and GB/T16483-2008. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.



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