





# 中国认可 国际互认 检验 INSPECTION CNAS IB0074-012

# **DESIGN REPORT OF SAFETY DATA SHEET**

No.: 220100320412885E

Date: Apr.1,2022

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Name of the sample	2-Hydroxyethyl acry	⁄late	是 一 一 一 一 一 一 一 一 一 一 一 一 一				
Applicant	Chizhou Fangda Science and Technology Co., Ltd. 检验检测专用章 3201						
Supplier	Chizhou Fangda Sc	Chizhou Fangda Science and Technology Co., Ltd.					
Composition of the sample	2-Hydroxyethyl acrylate: 97%						
Warranty of Design	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) Ninth revised edition						
Design Result of SDS please see next page.							
Designer	初始於	Approver	For and on behalf of CCIC JIANGSU CO., LTD. 中国检验认证集团江苏有限公司				
4 授权签字人 Authorized Signature (s)							

Notes: This SDS is valid before the implementation of the Tenth revised edition GHS.





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No.: 220100320412885E

Warranty of Design: GHS (Ninth Revised

Edition)

SDS

Date: Apr.1,2022

## Section 1 Product and Company Identification

#### > Product Identifier

**Product Name** 

2-Hydroxyethyl acrylate

**Synonyms** 

-

CAS No.

818-61-1

EC No.

212-454-9

Molecular Formula

C<sub>5</sub>H<sub>8</sub>O<sub>3</sub>

### > 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** 

Chizhou Fangda Science and Technology Co., Ltd.

**Application Address** 

Xiangyu Chemical Park, Dongzhi County, Anhui, China

**Applicant Post Code** 

247260

**Supplier Name** 

Chizhou Fangda Science and Technology Co., Ltd.

**Supplier Address** 

Xiangyu Chemical Park, Dongzhi County, Anhui, China

**Supplier Post Code** 

247260

#### Section 2 Hazards Identification

Hazard class and label elements of the product according to GHS (the ninth revised edition):

### > GHS Hazard Class

Acute Toxicity - Oral

Category 4

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Acute Toxicity - Dermal

Category 3

Skin

Edition)

Category 1

Corrosion/Irritation Sensitization – Skin

outogory i

Hazardous To The

Category 1

Agustic Environment

Aquatic Environment – Short-Term (Acute)

Category 1

Hazard

#### > GHS Label Elements

**Pictogram** 



Signal Word

Danger

### > Hazard Statements

H302 Harmful if swallowed
H311 Toxic in contact with skin

H314 Causes severe skin burns and eye damage

H317 May cause an allergic skin reaction

H400 Very toxic to aquatic life

### > Precautionary Statements

#### Prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands and other contact area thoroughly after handling.

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

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

Response

P316 Get emergency medical help immediately.

P321 Specific treatment (see measures on this label).

P330 Rinse mouth.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

P301+P317 IF SWALLOWED:Get medical help.
P302+P352 IF ON SKIN: Wash with plenty of water.

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P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P333+P317 If skin irritation or rash occurs:Get medical help.

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

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

P302+P361+P354

IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with

water for several minutes.

P305+P354+P338 IF IN EYES:Immediately rinse with water for several minutes.Remove contact

lenses, if present and easy to do. Continue rinsing.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/ international

regulations.

## Section 3 Composition/Information on Ingredients

ComponentCAS No.EC No.Concentration (weight percent, %)2-Hydroxyethyl acrylate818-61-1212-454-997

## 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.

Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to

Inhalation mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give

artificial respiration and consult a physician immediately.

Protecting of Ensure that medical personnel are aware of the substance involved. Take precautions

**First-aiders** to protect themselves and prevent spread of contamination.

#### > Most Important Symptoms and Effects, both Acute and Delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

## > Indication of Any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically.

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2 Symptoms may be delayed.

## Section 5 Fire Fighting Measures

### > Extinguishing Media

Suitable Extinguishing

Media Unsuitable

**Extinguishing Media** 

Dry chemical, carbon dioxide or alcohol-resistant foam.

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

- 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

- Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 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.

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## 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

Component	Country/Region	Limit Value	- Eight Hours	Limit Value - Short Term		
	Country/Region	ppm	mg/m³	ppm	mg/m³	
2-Hydroxyethyl acrylate 818-61-1	Sweden	1	5	2	10	
	Latvia	-	0.5	-	-	
	Denmark	1	5	2	10	

### **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.
- 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

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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.

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

Respiratory protection

and Body

Protection

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

## Section 9 Physical and Chemical Properties

Appearance: colourless transparent liquid

Odor: No information available

ph: No information available

Melting Point/Freezing Point (°C): -60 Flash Point (°C)( Closed Cup): 101

Flammability: Not applicable

Vapor Pressure (KPa): 0.1hpa (21.4 °C)
Relative Density(Water=1): 1.106 (20 °C)
n-Octanol/Water Partition Coefficient: -0.21
Decomposition Temperature (°C): No information

available

Particle characteristics: Not applicable

Initial Boiling Point and Boiling Range (°C): 210

Evaporation Rate: No information available

Upper/lower explosive limits[%(v/v)]: Upper limit: No

information available; Lower limit: 1.3 Relative Vapour Density(Air=1): 4.0

Solubility: Miscible with water

Auto-Ignition Temperature(°C): 370

Kinematic Viscosity (mm<sup>2</sup>/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

Under normal conditions of storage and use, hazardous decomposition products

**Decomposition products** should not be produced.

## Section 11 Toxicological Information

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### > Acute Toxicity

Component	onent CAS No. LD <sub>50</sub> (Oral)		LD <sub>50</sub> (Dermal)	LC <sub>50</sub> (Inhalation, 4h)		
2-Hydroxyethyl acrylate	818-61-1	548mg/kg(Rat)	298mg/kg(Rabbit)	No information available		

### > Skin Corrosion/Irritation

Causes severe skin burns and eye damage(Category 1)(2-Hydroxyethyl acrylate)

## > Serious Eye Damage/Irritation

No information available

#### > Skin Sensitization

May cause an allergic skin reaction(Category 1)(2-Hydroxyethyl acrylate)

## > Respiratory Sensitization

No information available

## > Germ Cell Mutagenicity

No information available

### > Carcinogenicity

ID	CAS No.	Component	IARC	NTP	
1	818-61-1	2-Hydroxyethyl 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

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### > Acute Aquatic Toxicity

Component	nent CAS No. Fish		Crustaceans	Algae		
2-Hydroxyethyl acrylate	818-61-1	LC <sub>50</sub> : 4.8mg/L (96h)(Fish)	EC <sub>50</sub> : 5.2mg/L (48h)	ErC <sub>50</sub> : 6.0mg/L (72h)		

## > Chronic Aquatic Toxicity

Component	CAS No.	Fish	Crustaceans	Algae		
2-Hydroxyethyl acrylate	818-61-1	No information available	NOEC: 0.48mg/L	NOEC: 1mg/L		

#### > Others

Persistence and

Degradability Bioaccumulative

Bioaccumulative Potential

Mobility in Soil

Results of PBT and

vPvB Assessment

No information available

No information available

No information available

2-Hydroxyethyl 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 Contaminated Packaging Disposal

Recommendations

Before disposal should refer to the relevant national and local laws and regulation. 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 Waste chemicals and Contaminated packaging.

## Section 14 Transport Information

**Transporting Label** 



Marine pollutant

Yes

**UN Number** 

2922

**UN Proper Shipping** 

CORROSIVE LIQUID, TOXIC, N.O.S.

Name

8

**Transport Subsidiary** 

**Transport Hazard Class** 

Ö

Hazard Class

6.1

**Packing Group** 

П

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## Section 15 Regulatory Information

### > International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
2-Hydroxyethyl acrylate	<b>V</b>	$\checkmark$	<b>√</b>	√	<b>√</b>	<b>√</b>	<b>V</b>	<b>√</b>	<b>V</b>

[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.

#### Note

" $\sqrt{}$ " Indicates that the substance included in the regulations

"x" That no data or included in the regulations

### Section 16 Additional Information

Creation DateApr.1,2022Revision DateApr.1,2022

Reason for Revision -

### > Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 9th revised edition). 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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# Terms of the Using of the Report

- The report is issued by CCIC according to the information of the chemicals and the information at its shipping provided by the applicant (shipper or his agent).
- 2. According to the demand of this SDS, CCIC requires the applicant to provide the and exact sample and data.
- 3. Information from applicant is the key of this SDS, so CCIC will not respond for the wrong of applicant.
- 4. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
- 5. This report will be effective only after it is signed by the inspector, approver and stamped by CCIC.
- 6. CCIC guarantees the objectivity and fairness of this report, and carries out confidentiality obligations on business secrets such as business information, technical documents and so on.
- 7. The partly duplicating of this report is prohibited without the written approver of CCIC.
- 8. The report is invalid when anything of the following happens-illegal transfer, embezzlement, imposture, modification or tampering in any media form.

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