



DESIGN REPORT OF SAFETY DATA SHEET

No.: 220100320412888E

Date: Apr.1,2022

| | | | |
|--|---|-----------------|--|
| Name of the sample | 2-Hydroxypropyl Acrylate | | |
| Applicant | Chizhou Fangda Science and Technology Co., Ltd. | | |
| Supplier | Chizhou Fangda Science and Technology Co., Ltd. | | |
| Composition of the sample | 2-Hydroxypropyl 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 | | Approver | <i>For and on behalf of</i> 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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Section 1 Product and Company Identification

> Product Identifier

| | |
|-------------------|--------------------------|
| Product Name | 2-Hydroxypropyl Acrylate |
| Synonyms | - |
| CAS No. | Not applicable |
| EC No. | Not applicable |
| Molecular Formula | Not applicable |

> 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 3 |
|-----------------------|------------|



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| | |
|------------------------------------|------------|
| Acute Toxicity – Dermal | Category 3 |
| Skin | |
| Corrosion/Irritation | Category 1 |
| Sensitization – Skin | Category 1 |
| 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+P265 | Wash hands and other contact area thoroughly after handling. Do not touch eyes. |
| 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/hearing protection. |

Response

| | |
|-----------|--|
| P316 | Get emergency medical help immediately. |
| P317 | Get medical help. |
| P320 | Specific treatment is urgent (see measures on this label). |
| P321 | Specific treatment (see measures on this label). |
| P330 | Rinse mouth. |
| P363 | Wash contaminated clothing before reuse. |
| P301+P316 | IF SWALLOWED: Get emergency medical help. |



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| | |
|-----------------------|---|
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| 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. |
| 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. |

Section 3 Composition/Information on Ingredients

| Component | CAS No. | EC No. | Concentration (weight percent, %) |
|--------------------------|------------|-----------|-----------------------------------|
| 2-Hydroxypropyl Acrylate | 25584-83-2 | 247-118-0 | 97 |

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

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



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> 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.



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- 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

| Component | Country/Region | Limit Value - Eight Hours | | Limit Value - Short Term | |
|--|----------------|---------------------------|-------------------|--------------------------|-------------------|
| | | ppm | mg/m ³ | ppm | mg/m ³ |
| 2-Hydroxypropyl Acrylate 25584-83-2 | Poland | - | 2.8 | - | 6 |

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.



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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: No information available |
| Odor Threshold: No information available | pH: No information available |
| Melting Point/Freezing Point (°C): -23.4 | Initial Boiling Point and Boiling Range (°C): 198.5 |
| Flash Point (°C)(Closed Cup): 99 | Evaporation Rate: No information available |
| Flammability: Not applicable | Upper/lower explosive limits[% (v/v)]: Upper limit: No information available; Lower limit: 1.8 |
| Vapor Pressure (KPa): 0.01hPa (20°C) | Relative Vapour Density(Air=1): 4.5 |
| Relative Density(Water=1): 1.05 | Solubility: Miscible with water |
| n-Octanol/Water Partition Coefficient: 0.2 | Auto-Ignition Temperature(°C): No information available |
| Decomposition Temperature (°C): No information available | Kinematic Viscosity (mm²/s): No information available |
| Particle characteristics: Not applicable | |

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. |



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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) | 306mg/kg(Rabbit) | No information available |

> Skin Corrosion/Irritation

Causes severe skin burns and eye damage(Category 1)

> Serious Eye Damage/Irritation

Causes serious eye damage(Category 1)

> Skin Sensitization

May cause an allergic skin reaction(Category 1)

> 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



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> **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 No information available

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 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 No

UN Number 2922

UN Proper Shipping Name CORROSIVE LIQUID, TOXIC, N.O.S.

Transport Hazard Class 8



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Transport Subsidiary 6.1
Hazard Class
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.

Note

"√" Indicates that the substance included in the regulations

"x" That no data or included in the regulations

Section 16 Additional Information

Creation Date Apr.1,2022

Revision Date Apr.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

1. The report is issued by CCIC according to the information of the chemicals and the information of its shipping provided by the applicant (shipper or his agent).
2. According to the demand of this SDS, CCIC requires the applicant to provide true 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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