**Material** **Safety** **Data** **Sheet**

**1.** **Identification** **of** **the** **Product** **and** **Company**

Product: Polycarboxylic Acid Powder

Supplier:Wuhan Tapai Huaxuan New Material Technology Co.， Ltd.

Wuhan City, Hubei Province, China.

TEL:86-027-87227330 FAX:86-027-87227087

Synonyms: acroleic acid, methacrylic acid, polyether and cis-butenedioic anhydride

Material uses: Industrial applications: Superplasticizer, Dispersant in concrete production, Water reducer. Textile industry:Dispersing agent.

Validation date: August 3, 2021

Responsible name :E H&S Dpt.

**2.Hazards** **Identification**

Physical state :Powder.

Emergency overview: **CAUTION!** Wear a dust respirator. Avoid contact with skin and eyes. Do not ingest. Do not breathe gas, fumes, vapor or spray. After handling, always wash hands thoroughly with soap and water.

GHS07



Eye:may cause eye irritation

Skin:may cause skin irritation.

Ingestion:low hazard for usual industrial handling.

Inhalation:may cause respiratory tract irritation

Routes of entry: Ingestion. Eye contact. Inhalation.

Potential acute health effects

Inhalation: No known significant effects or critical hazards.

Ingestion:Slightly hazardous in case of ingestion.

Skin:May be a slight sensitizer.

Eyes: Slightly hazardous in case of eye contact(irritant).

Potential chronic health effects

Chronic effects : No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Target organs: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation:No specific data.

Ingestion: No specific data.

Skin:No specific data.

Eyes:No specific data.

Medical conditions aggravated by overexposure:

Repeated or prolonged exposure is not known to aggravate medical conditions.

**3.Composition/information** **on** **ingredients**

|  |  |  |
| --- | --- | --- |
| Name | CAS number | Content wt% |
| Sodium polycarboxylate | 62601-60-9 | ≥98 |
| Sodium sulphate | 7757-82-6 | 1-2 |

**4.** **First-aid** **measures**

Eye contact: Flush eyes with water and carefully rinse under eyelids. If irritation persists, consult physician.

Skin contact: Flush skin thoroughly with water.

Inhalation:In case of discomfort, move to a ventilated area.

Ingestion: If victim is conscious, induce vomiting. Give a large quantity of water: Get medical attention.

**5.** **Fire-fighting** **measures**

Flammability of the product: Non-flammable.

Extinguishing media

Suitable: Use extinguishing media suitable for surrounding materials.

Not suitable:None known.

Special exposure hazards: No specific hazard

Special remarks on fire hazard: Not available.

**6.Accidental** **release** **measures**

Leak disposal procedures: Sweep the area and transfer the material into container for disposal. Recycle if possible. Dispose of waste in accordance with Federal, State or local regulations.

**7.** **Handling** **and** **storage**

Handling: Handle the solution product in containers, follow generally accepted industrial practice for good hygiene and handling of nonmetallic pow der. Avoid prolonged or repeated skin contact

Storage: Store in cool place w ithin tightly sealed container.

**8.** **Personal** **protection**

Protection of hands: Impervious gloves

Eye protection: Safety glasses recommended for dust

Body protection: Protective work clothing

**9.Physical** **and** **chemical** **properties**

Physical state:Powder.

Odor:Slight

Color:White.

pH:7-8(10% Aqueous Solution)

Molecular weight:Not available.

Ionicity(in water):Anionic.

S.G.(water=1):0.69

Volatile(by weight):6-9%

Solubility: Easily soluble in cold and hot water.

**10.Stability** **and** **reactivity**

Stability: The product is stable.

Conditions to avoid: Avoid contact with strong oxidizing agent.

Decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**11.Toxicological** **information**

Toxicity data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Product/ingredient name | Test | Result | Route | Species |
| Sodium polycarboxylate | LD50 | >1800mg/kg | Oral | Rat |

Potential acute health effects

Inhalation: No known significant effects or critical hazards.

Ingestion:Slightly hazardous in case of ingestion.

Skin: May be a slight sensitizer.

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Potential chronic health effects

Chronic effects: No known significant effects or critical hazards.

Carcinogenicity:No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity:No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Target organs: No known significant effects or critical hazards.

**12.Ecological** **information**

Environmental effects : No known significant effects or critical hazards.

Biodegradability: Not readily biodegradable.

Aquatic ecotoxicity :Not available.

**13.Disposal** **considerations**

Waste disposal: The generation of waste should be avoided or

minimized wherever possible. Disposal of this product

should at all times comply with the requirements of

environmental protection and waste disposal

legislation and any regional local authority

requirements. Recycle if possible.

**14.** **Transport** **information**

|  |  |
| --- | --- |
| Regulatory information | UN number |
| DOT Classification | Not regulated. |
| TDG Classification | Not regulated. |
| IATA-DGR Class | Not regulated. |
| IMO IMDG | Not regulated. |

**15.** **Regulatory** **information**

Transportation information

Identification number: Not available.

Classification:Not available.

USA regulations:No ingredient of this product is subject to the reporting requirements of section 313 of Title Ⅲ of the "Superfund Amendment and Reauthorization ActⅡ(SARA) of 1986 and 40 CFR part372 of United States.

**16.** **Other** **information**

Label Requirement:Not applicable.

Hazardous Material Information System (U.S.A.)

|  |  |
| --- | --- |
| Health | 1 |
| Fire hazard | 0 |
| Reactivity | 0 |
| Personalprotection | 0 |

HAZARD RATING

4-Extreme

3-Serious

2-Moderate

1- Slight

2- 0-Minimal

Caution: HMIS ratings are estimated from available data.

The customer is responsible for determining the PPE code for this product.

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Notice to reader

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unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.