

MATERIAL SAFETY DATA SHEET

Base on GB/T16483, GB/T17519

Polyacrylamide (PAM)

Version: 3.0

Date: 2023-May-23

LONGKEY

Long supplements

1, Product and Company Identification:

Product identification:

Product name	Polyacrylamide
IUPAC name	Prop-2-enamide

Company identification:

Name	Longkey Chemistry Limited
Address	No.918, Dengyun road, Tangxi, Jinhua, Zhejiang, China
Zip code	321075
Telephone number	+86.21.50813.234
Email	info@longkey.com

Emergency number	+86. 532.8388.9090 (NRCC)
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2, Hazards Identification:

Emergency situation summary:

Not classified.

GHS hazard classification:

Not classified.

GHS label element:

No symbol.

Signal word:

No signal word.

Hazard statement:

None.

Physical and chemical hazards:

No information.

Environmental hazards:

No information.

3, Composition/ Information on ingredients

Composition	CAS number	Formula	Content
Polyacrylamide	9003-05-8	(C ₃ H ₅ NO) _n	≥89%
Water	7732-18-5	H ₂ O	≤11%

4, First aid measures:

Inhalation:

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Skin contact:

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Eye contact:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Ingestion:

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cup full of milk or water.

Notes to Physician: Treat symptomatically and supportively.

5, Fire-fighting measures:

Extinguishing media:

Dry chemical, carbon dioxide, water spray, 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 Containers may explode when heated.
- 2 Fire exposed containers may vent contents through pressure relief valves.
- 3 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.

6, Accidental release measures:

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 vapors, 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

7, Handling and storage information:

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.

8, Exposure controls and personal protection:

Control parameters: Not set up

Appropriate engineering controls:

Mechanical exhaust required. Safety shower and eye bath.

Personal protective equipment:

Respiratory system: Wear government approved respirator..

Eyes: Safety goggles are recommended during use.

Clothing: Wear appropriate protective clothing.

Skin and body: Wear neoprene apron and rubber boots.

Hands: The glove material must be impermeable and resistant to the product, substance or additive.

Others: No smoking, drinking and eating at working site.

9, Chemical and physical properties:

Appearance	White crystalline powder
Odor	Weak odor
Odor threshold	N/A
PH	5-6.5 (25°C, 50% aqueous solution)
Solubility	Soluble in water 390mg/mL (25°C).
Melting point	N/A
Boiling point	192.6°C
Flash point	138°C
Density	1.12g/cm ³
Stability	Stable under recommended storage conditions
Viscosity	2.71cps (25°C, 50% aqueous solution)

10, Stability and reactivity:

Stability:

In normal condition and storage, the product is stable.

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available

Conditions to avoid

No data available

Incompatible materials

Strong oxidizing agents

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 - > 1,000 mg/kg

Epidemiology:

No information available.

Teratogenicity:

No information available.

Reproductive Effects:

No information available.

Neurotoxicity:

No information available.

Mutagenicity:

No information available.

Other studies:

See actual entry in RTECS for complete information.

12, Ecological information:

Acute aquatic toxicity: No data.

Chronic aquatic toxicity: No data

Durability and degradability: No data

Potential bioaccumulation: No data

Mobility in soil: No data.

13, Disposal considerations:

Waste treatment methods**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14, Transport information:

The Dangerous Goods (TDG) classification:

Not regulated.

UN number (United Nations dangerous goods number) :

Not regulated.

International Maritime Dangerous Goods (IMDG) code:

Not regulated.

Packing Unit:

Not regulated.

Marine Pollution:

No.

IMDG/IMO: Not regulated.

Land transport: Not regulated.

Sea transport: Not regulated.

Air transport: Not regulated.

15, Regulatory information Part one:

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

16, Regulatory information Part two:

Compilation and Revision Information:

The first edition of MSDS is authorized on September 02, 2010, the second edition was revised on September 30, 2018.

Training Advice:

Provide sufficient information and instructions to the trainer.

Disclaimer:

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