

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 07/21/2022 Revision date: 07/05/2017 Supersedes: 06/20/2017

Version: 1.1

| : Mixture |
|---|
| : Polyacrylamide 10% in water (MW 400.000 – 1,000.000) |
| : 19901 |
| |
| : (C3H5NO)n |
| : PAM / PAAM / Polyacrylamides / Acrylamide, polymers / poly(2-propenamide) / poly(1- carbamoylethylene) |
| n use |
| : Scientific research and development, Use as laboratory reagent, Manufacture of substances |
| |
| l |
| |
| : 24-hour emergency phone number ChemTel 1-800-255-3924 |
| |
| ture |
| |
| Harmful if inhaled Causes skin irritation Causes eye irritation |
| utionary statements |
| |
| |
| : Warning |
| : Causes skin irritation Causes eye irritation Harmful if inhaled |
| : Avoid breathing dust/fume/gas/mist/vapors/spray. |
| Wash hands, forearms and face thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. |
| Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. |
| Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. |
| |

Not applicable

SECTION 3: Composition/Information on ingredients

Substances 3.1.

Not applicable

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| 3. | 2. Mixtures | | | |
|----|----------------------------|---------------------|----------|-----------------------|
| | Name | Product identifier | % | GHS US classification |
| | Water | (CAS-No.) 7732-18-5 | 85 – 100 | Not classified |
| | 2-Propenamide, homopolymer | (CAS-No.) 9003-05-8 | 5 – 15 | Not classified |

Comments : Contains small amounts (0.02-0.05%) of formalin as fungicide

Full text of hazard classes and H-statements : see section 16

| SECTION 4: First-aid measures | |
|---|--|
| 4.1. Description of first aid measures | |
| | : Call a poison center/doctor/physician if you feel unwell. |
| First-aid measures general First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if |
| First sid management often skin southout | you feel unwell. Call a poison center/doctor/physician if you feel unwell. |
| First-aid measures after skin contact | : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Rinse mouth out with water. Call a poison center/doctor/physician if you feel unwell. |
| 4.2. Most important symptoms and effect | ts (acute and delayed) |
| Symptoms/effects after skin contact | : Irritation. |
| Symptoms/effects after eye contact | : Mild eye irritation. |
| | |
| 4.3. Immediate medical attention and spectra symptomatically. | cial deathent, if hecessary |
| | |
| SECTION 5: Fire-fighting measures | |
| 5.1. Suitable (and unsuitable) extinguish | ing media |
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
| 5.2. Specific hazards arising from the ch | emical |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |
| 5.3. Special protective equipment and pr | ecautions for fire-fighters |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
| SECTION 6: Accidental release meas | ures |
| 6.1. Personal precautions, protective equ | lipment and emergency procedures |
| 6.1.1. For non-emergency personnel | |
| Emergency procedures | : Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. |
| 6.1.2. For emergency responders | |
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| 6.2. Environmental precautions | |
| Avoid release to the environment. Prevent entry t | o sewers and public waters. |
| 6.3. Methods and material for containme | nt and cleaning up |
| Methods for cleaning up | : Take up liquid spill into absorbent material. |
| Other information | : Dispose of materials or solid residues at an authorized site. |
| | |
| 6.4. Reference to other sections | |

For further information refer to section 13.

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| SECT | ION 7: Handling and storage | | |
|-------|--|-----|---|
| 7.1. | Precautions for safe handling | | |
| Preca | utions for safe handling | : | Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Wear personal protective equipment. |
| Hygie | ne measures | : | Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |
| 7.2. | Conditions for safe storage, including | g a | ny incompatibilities |
| Stora | ge conditions | : | Store away from heat. Keep cool. Store in a well-ventilated place. Store at 4 deg. C. Store in a cool place in original container and protect from sunlight. Store in a tightly closed container. |

SECTION 8: Exposure controls/personal protection

Control parameters 8.1.

| Polyacrylamide 10% in water (MW 400,000 – 1,000,000) | |
|--|--|
| No additional information available | |
| 2-Propenamide, homopolymer (9003-05-8) | |
| No additional information available | |
| Water (7732-18-5) | |
| No additional information available | |

8.2. **Appropriate engineering controls**

- : Ensure good ventilation of the work station.
- Appropriate engineering controls Environmental exposure controls
- : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



| SECTION 9: Physical and chemic | cal properties | |
|---------------------------------------|---|-----|
| 9.1. Information on basic physical a | nd chemical properties | |
| Physical state | : Liquid | |
| Appearance | : Colorless, viscous liquid. | |
| Color | : Colorless | |
| Odor | : Mixture contains one or more component(s) which have the following odour: | |
| Odor threshold | : No data available | |
| рН | : No data available | |
| Melting point | : Not applicable | |
| Freezing point | : No data available | |
| Boiling point | : no data | |
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| Flash point | : not flammable |
|---|---------------------|
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : Not applicable. |
| Vapor pressure | : no data |
| Relative vapor density at 20°C | : no data |
| Relative density | : No data available |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| | |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

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

| 5 | | |
|---------------------------------------|---------------------------|-----|
| SECTION 11: Toxicological info | ormation | |
| 11.1. Information on toxicological | effects | |
| Acute toxicity (oral) | : Not classified | |
| Acute toxicity (dermal) | : Not classified | |
| Acute toxicity (inhalation) | : Harmful if inhaled. | |
| Polyacrylamide 10% in water (MW 4 | 00,000 – 1,000,000) | |
| LD50 oral rat | > 1 g/kg | |
| LC50 Inhalation - Rat | ~ | |
| ATE US (gases) | 4500 ppmV/4h | |
| ATE US (vapors) | 11 mg/l/4h | |
| ATE US (dust, mist) | 1.5 mg/l/4h | |
| 2-Propenamide, homopolymer (9003 | 3-05-8) | |
| LD50 oral rat | > 1 g/kg | |
| Skin corrosion/irritation | : Causes skin irritation. | |
| Serious eye damage/irritation | : Causes eye irritation. | |
| Respiratory or skin sensitization | : Not classified | |
| Germ cell mutagenicity | : Not classified | |
| Carcinogenicity | : Not classified | |
| Reproductive toxicity | : Not classified | |
| 11/11/2023 | EN (English LIS) | 1/6 |

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| STOT-single exposure | : Not classified |
|-------------------------------------|------------------------|
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| Viscosity, kinematic | : No data available |
| Symptoms/effects after skin contact | : Irritation. |
| Symptoms/effects after eye contact | : Mild eye irritation. |

| SECTION 12: Ecological information | |
|---|--|
| 12.1. Toxicity | |
| Ecology - general | : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. |
| 12.2. Persistence and degradability | |
| 2-Propenamide, homopolymer (9003-05-8) | |
| Persistence and degradability | Not established. |
| 12.3. Bioaccumulative potential | |
| No additional information available | |
| 12.4. Mobility in soil | |
| No additional information available | |

12.5. Other adverse effects

No additional information available

| SECTION 13: Disposal considerations | |
|-------------------------------------|---|
| 13.1. Disposal methods | |
| Waste treatment methods | Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| SECTION 14: Transport information | |
| Department of Transportation (DOT) | |
| In accordance with DOT | |
| Not applicable | |
| Transportation of Dangerous Goods | |
| Not applicable | |

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

| 2-Propenamide, homopolymer (9003-05-8) | | | |
|---|---|--|--|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | | |
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711). | | |

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Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

| 2-Propenamide, homopolymer (9003-05-8) | |
|---|--|
| Listed on the Canadian DSL (Domestic Substances List) | |
| Water (7732-18-5) | |
| Listed on the Canadian DSL (Domestic Substances List) | |

EU-Regulations

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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| Revision date | : 07/05/2017 |
|---------------|---|
| Hazard Rating | |
| Health | : 2 Moderate Hazard - Temporary or minor injury may occur |
| Flammability | : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB) |
| Physical | : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives. |

SDS US (GHS HazCom 2012)

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