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Material Safety Data Sheet
Polyacrylamide

Section 1: Chemical Product and Company Identification

Product Name : Polyacrylamide
Chemical Formula : $(C_3H_5NO)_n$
Company Identification : Tradeasia International Pte Ltd
Email : contact@chemtradeasia.com

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS#	% by Weight
Polyacrylamide	9003-05-8	100

Section 3: Hazards Identification

Potential Acute Health Effects:
Very hazardous in case of ingestion (gastrointestinal discomfort). Hazardous in case of eye contact (irritant). Slightly hazardous in case of inhalation (irritation to respiratory tract).

Section 4: First Aid Measures

Eye Contact:
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact:
Wash off with soap and plenty of water. Consult a physician.
Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5: Fire and Explosion Data

Special hazards arising from the substance or mixture: Carbon oxides, Nitrogen oxides (NOx)
Fire Hazards in Presence of Various Substances: Highly flammable in presence of open flames and sparks, of heat, of oxidizing materials.
Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of mechanical impact: Not available. Highly explosive in presence of open flames and sparks, of heat, of oxidizing materials.
Fire Fighting Media and Instructions: Foam, dry extinguishing powder, carbon dioxide (CO_2). Wear self-contained breathing apparatus for firefighting if necessary.

Section 6: Accidental Release Measures

Spills / Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

Section 7: Handling and Storage

Precautions: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Storage: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature 2 - 8 °C.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal Protection:

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle r (US) or type ABEKP2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

Section 9: Physical and Chemical Properties

Physical state and appearance	: Solid (powder)
Odor	: Odorless.
Taste	: Not available.
Molecular Weight	: 10,000 – 18,000,000 g/mole
Color	: White.
pH	: 5 - 8
Decomposition Temperature	: > 200°C
Melting Point	: 252 - 257°C
Critical Temperature	: Not available.
Density	: 0.75 – 0.95 g/cm^3 (at 25°C)
Bulk Density	: 650 – 850 kg/cm^3
Vapor Pressure	: Not available.
Vapor Density	: Not available.
Volatility	: Not available.
Odor Threshold	: Not available.
Water/Oil Dist. Coeff.	: Not available.

Ionicity (in Water)	: Not available.
Dispersion Properties	: Not available.
Solubility	: Partially soluble in water.

Section 10: Stability and Reactivity Data

Reactivity: Dust explosibility.
Chemical Stability: The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions of Instability: Protect from moisture. Keep away from heat. Decompostion takes place from temperatures above: >200 °C.
Incompatibility with various substances: Reactive with strong oxidizing agents, aluminium, iron, copper.
Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx) Other decomposition products - No data available
Polymerization: Will not occur.

Section 11: Toxicological Information

Primary Route(s) of Entry: Inhalation.
Acute Toxicity: Not available.
Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Conditions Aggravated by Overexposure: Respiratory disorders.
Target Organs: Respiratory system.

Section 12: Ecological Information

Toxicity: Not available.
Persistence and degradability: No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available
Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Section 13: Disposal Considerations

Waste treatment methods
Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical scrubber.
Contaminated packaging: Dispose of as unused product.

Section 14: Transport Information

UN number: (not subject to transport regulations)
UN proper shipping name: not relevant
Transport hazard class(es): not relevant
Class: -
Packing group: not relevant
Environmental hazards: none (non-environmentally hazardous acc. to the dangerous goods regulations)
Special precautions for user: Not available.

Transport in bulk according to Annex II of MARPOL and the IBC Code: The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations:

- **Transport of dangerous goods by road, rail and inland waterway (ADR.RID/ADN):** Not subject to ADR, RID, ADN
- **International Maritime Dangerous Goods Code (IMDG):** Not subject to IMDG.
- **International Civil Aviation Organization (ICAO-IATA/DGR):** Not subject to ICAO-IATA.

Section 15: Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture: No data available

Section 16: Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Tradeasia International Pte. Ltd. Be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Tradeasia International Pte. Ltd. has been advised of the possibility of such damages.