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MATERIAL SAFETY DATA SHEET
ECO-IMPRES-4055

1. Product & Company Identification

Product Details

Description: Styrene -Acrylic Emulsion
Product Code/s: ECO-IMPRES - 4055
Recommended Use: For Indl. (Chem. Ind.) use only
Chemical family: Polymer

Company Details

Address: 210/211, Narmada, Laxmi Indl. Premises, Pokhran Rd., Vartak Nagar, Thane

Telephone +91 22 25855379
Fax: + 9122 2585 5714
E-Mail: sales@anuvichem.com
Website: www.anuvichem.com

2. Composition / Information on Ingredients

Chemical Characterization	CAS #	% Range
Water	7732 - 18 - 5	45 - 55
Amine Salt of Modified Acrylic Copolymer	EC 1272/2008	40 – 50
Ammonium Hydroxide	1336 – 21 - 6	< 1 %
Alcohols - C11 - C15 secondary, Ethoxylated	68131 - 40 - 8	< 2 %

Hazards not otherwise Classified:
According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Emergency Overview: Use with local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. If used as intended, this product is not expected to present a physical or health hazard.

3. Hazards Identification

Emergency Overview

Physical Appearance: Free flowing milky to translucent liquid – Characteristic odour

Potential Health Effects

Eyes: May cause eye burning or irritation on over exposure
Skin: May cause irritation in the form of redness, burning or dermatitis (last one in severe cases or person being allergic)

Ingestion: Chemicals present in this mixture may be harmful if swallowed. Also, may affect nervous system and cause abdominal discomfort.

Inhalation: May cause moderate respiratory irritation, dizziness, fatigue, nausea & headache

4. First Aid Measures

Eyes:	Immediately flush eyes with plenty of water for two to three minutes. Remove eye contact lenses (if wearing one) and continue flushing with water for 15 minutes. Get medical attention
Skin:	Remove contaminated clothing and immediately wash affected area with plenty of soap and water. Seek medical attention where necessary. Wash contaminated clothing before use.
Ingestion:	Contact local medical practitioner or medical help. Do not induce vomiting unless advised by medical practitioner. If vomiting occurs then keep head lower than hips to help prevent aspiration. Get medical attention immediately.
Inhalation:	Remove the patient to fresh air (open and airy space), supply oxygen if breathing is difficult. Seek medical attention immediately.
Clothing	Remove contaminated clothing and wash the affected body part/s with water

5. Flammability & Fire Fighting Measures

Extinguishing media:	Water spray, Dry Powder and Foam
Hazardous combustion products:	Harmful vapours. Evolution of fumes & fog. Substances / group substances can be released in case of fire.
Firefighting equipment:	Fire fighters must be equipped with self-contained breathing apparatus and turn-out gear. Contaminated fire extinguishing water must be disposed off in accordance with the official regulations.

6. Accidental Release (spillage / leakage) Measures

General procedure:	Vacate area of spill or leak. Wear appropriate personal protective equipment. Contain and recover liquid to the extent possible Collect the liquid in an appropriate container or absorb with an inert material like saw dust / dry sand / universal binder / acid binder or cloth stripes (Chindhi) etc. Disperse any vapour and flush spill away from the personnel or other ignitable material. Whatever is collected from the accidental release – treat as prescribed under Disposable Material" Do not discharge in to drains, ground water and/or surface water streams.

7. Handling & Storage

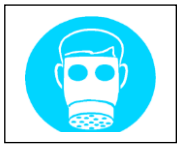
General procedure:	No special measures necessary provided product is used correctly
Precautions against Fire & Explosion	No special precaution/s necessary
Conditions for storage, including ay in-compatibilities	Keep containers tightly closed and in a cool place
Shelf Life	One year from date of manufacture when stored in original sealed container at recommended storage temperature range.

8. Exposure Control & Personal Protection

Exposure guidelines:	OSHA Hazardous Components (29 CIR 1910.1200) – Exposure Limits

Personal Protection Equipment:

Eye & face	Wear safety glasses with side shields or goggles when handling this material
Skin	Wear impervious gloves and appropriate protective clothing as required to minimize contact with skin
Respiratory:	A half-face organic vapour respirator maybe worn for protection up to ten or full-face respirator for protection up to fifty times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier. Whichever is lowest must be followed. For emergencies where the exposure levels are unknown, use a full-face air respirator.




9. Physical & Chemical Properties

Physical State	Milky White liquid
% Solid Content	46 ± 1
Brookfield viscosity cps Spindle 3/RPM 60 at 30°C	400 ± 100
pH	7.5 ± 1
Vapour Density	Heavier than air
Boiling Point	Around 100°C
Freezing Point	0°C
Melting Point	Not applicable
Solubility in Water	Yes
Flash Point	No flash point (measurement made up to boiling point)
Flammability	Not Flammable
Lower explosion limit	15 % (V)
Upper explosion limit	28 % (V)
Auto-ignition	Due to high water content - product does not ignite
Density	1.04 g/cm^3
Thermal decomposition	Stable up to boiling point
VOC or % Volatilities	< 1 %
Evaporation rate	Not determined

10. Stability & reactivity

Reactivity	No hazards if stored / handled as prescribed
Oxidizing properties	No fire propagation
Chemical Stability	Product is stable if product is stored and handled as prescribed.
Polymerization or Hazardous reactions:	Shall not occur, if product is stored as prescribed
Conditions to avoid	See sec. 7 (Handling & Storage)
Incompatible material/s hazards	No such material identified
Hazardous decomposition products	No hazards if stored / handled as prescribed
Thermal decomposition	Stable up to boiling point

11. Toxicological Information

Primary routes of exposure	Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.
Acute Toxicity:	Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Oral Type of value: LD50 Species: rat Value: > 5,000 mg/kg

12. Ecological Information

Environmental data	No data available.

13. Disposal Considerations

Product	Material that cannot be transferred to recovery or re-cycle should be handled as hazardous waste and the extract disposed off at a Govt. Approved waste facility or incinerator (or handed over to waste handling authorised contract). Always dispose according to the current regulations or the acts of the country of residence. Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.
Un-cleaned packing:	Contaminated packing material should be emptied as for as possible and after appropriate cleaning could be re-used or disposed as per the regulations.

14. Transport Information

Department of Transportation Rules

Proper Shipping Name	Polymer Emulsion
Technical Name	Acrylic Polymer Emulsion
Land Transport (USDOT)	Not classified as Dangerous Goods under Transport Regulations
Sea Transport (IMDG)	Not classified as Dangerous Goods under Transport Regulations
Air Transport (IATA / ICAO)	Not classified as Dangerous Goods under Transport Regulations

15. Regulatory Information

Federal regulations	
Registration status	Chemical - TSCA US Released list
EPCRA 311/322 Hazard category	Acute; Chronic
NFPA Hazard Codes	Health: 1; Fire: 0; Reactivity: 0; Special: None
HMIS III Rating	Health: 1; Flammability: 0; Physical hazard: 0

16. Other Information

NFPA Codes	Health	1	HMS Codes	Health	1
	Fire	0		Fire	0
	Reactivity	0		Reactivity	0
				Protection	G

Additional Information

The OSHA Hazard Communication Standard, 29 CFR 1910.1200, Paragraph (g) (4), specifically permits chemical manufacturers to single MSDS for a category of complex mixtures, where those "**Mixtures**" have similar Hazards and contents. Therefore, this MSDS applies to the range of products described in Section 1, or all products with the same product name listed in section 1 (unless described otherwise). Where specific data is required for the purposes of regulatory reporting, a Technical Data Sheet shall be provided for the specific product, on request to us (manufacturer).

Manufacturers Disclaimer:

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of issue and stability of the product for particular use and suitability of the product for specific application/s are beyond our control; all risks of use of this product are therefore assumed by the user. Nothing is intended as a recommendation for uses, which infringe valid Patents or extending Licence under valid Patents. Appropriate warning and safe handling procedures should be provided to all the handlers and users of this material.

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