MSDS/01 REF No.: 15/11/15 Rev. Date: 31/03/17 **Issue Date:** Version No.

MATERIAL SAFETY DATA SHEET **ECO-IMPRES-2067-A/M**

Product & Company Identification

Product Details

Description: Styrene -Acrylic Resin solution Product Code/s: ECO-IMPRES - 2067-A/M Recommended Use: For Indl. (Chem. Ind.) use only

Chemical family: Polymer

Company Details

Address: 210/211, Narmada, Laxmi Telephone +91 22 25855379 + 9122 2585 5714 Indl. Premises, Pokhran Rd., Vartak Fax: E-Mail: Nagar, Thane sales@anuvichem.com Website: www.anuvichem.com

2. Composition / Information on Ingredients

Chemical Characterization: CAS# % Range Water 7732 - 18 - 5 45 - 55 40 - 50Amine Salt of Modified Acrylic Copolymer EC 1272/2008

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 Transparent & pale yellow liquid –

Characteristic odour

Potential Health Effects

Eves 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.

Remove the patient to fresh air (open and airy space), supply oxygen if breathing is Inhalation:

difficult. Seek medical attention immediately.

Remove contaminated clothing and wash the affected body part/s with water Clothing

5. Flammability & Fire Fighting Measures

Extinguishing media: Water spray, Dry Powder and Foam

Hazardous combustion

Harmful vapours. Evolution of fumes & fog. Substances / group of

products: 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.

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 No special precaution/s necessary

& Explosion

Conditions for storage, including ay incompatibilities

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

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

Personal Protection Equipment:

Eve & 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 Transparent &pale yellow liquid

% Solid Content 45 ± 1 Brookfield viscosity cps 500 ± 200

Spindle 3/RPM 60 at 30°C

pН 8.5 ± 1

Vapour Density Heavier than air **Boiling Point** Around 100°C

Freezing Point $0^{\circ}C$

Not applicable Melting Point

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)

Due to high water content - product does not ignite Auto-ignition

Density 1.04 g/cm^3

Thermal decomposition Stable up to boiling point

VOC or % Volatilities < 1 %

Not determined Evaporation rate

10. Stability & reactivity

No hazards if stored / handled as prescribed Reactivity

Oxidizing properties No fire propagation

Chemical Stability Product is stable if product is stored and handled as prescribed.

Polymerization or Shall not occur, if product is stored as prescribed

Hazardous reactions:

Conditions to avoid See sec. 7 (Handling & Storage) No such material identified Incompatible material/s

hazards

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 Resin solution

Technical Name Styrene Acrylic Resin Solution

Land Transport (USDOT)

Not classified as Dangerous Goods under Transport Regulations

15. Regulatory Information

Federal regulations

Registration status Chemical - TSCA US Released list

EPCRA 311/322 Hazard Acute; Chronic

category

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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