

## Technical Data Sheet (TDS)

### 1. Product Information

- **Product Name:** MEA Triazine 78%
- **Brand Name :** VASTREAT 78
- **Chemical Name:** 1,3,5-tris(2-hydroxyethyl) hexahydrotriazine
- **CAS Number:** 4719-04-4
- **Manufacturer:** Vasudev Chemo Pharma
- **Country of Origin:** India
- **Molecular formula :** C<sub>9</sub>H<sub>21</sub>N<sub>3</sub>O<sub>3</sub>
- **Molecular Weight :** 129.2g/Mol
- **Packaging :** 50Kg HDPE Carboy, 220Kg Drum, 1100Kg IBC

### 2. General Properties

Property	Specification/Value
Molecular Formula	C <sub>9</sub> H <sub>21</sub> N <sub>3</sub> O <sub>3</sub>
Chemical Name	Hexahydro-1,3,5-tris(Hydroxyethyl)-s-Triazine
Appearance	Clear to light yellow liquid
Color	Colorless
pH (10% solution, 20 °C)	Approx. 10.5 (Specification: 10.0–12.0)
Specific Gravity at 25 ± 2°C	1.10 – 1.15
Free Monoethanolamine	1% - 1.4wt%
Solubility In distilled water	Soluble

### 3. Composition

Component	Value/Range
Assay (as % S-Triazine)	79.05% (Specification: 79.05%–80%)
Concentration	70% to < 90% w/w

- **Applications:** Vastreat 78 is an aqueous based low toxicity biocide for protection of water-Based products. It is effective against a wide range of microorganisms including gram positive and gram negative bacteria, yeast and fungi. Microorganisms grow at a rapid rate and without use of the correct biocide, numbers can increase dramatically.

Address: **Plot No. H-3062, Near Gada Circle, Ankleshwar GIDC - 393002- Gujarat, India**

@ [vasudevchemopharma@gmail.com](mailto:vasudevchemopharma@gmail.com)

🌐 [www.vasudevchemopharma.com](http://www.vasudevchemopharma.com)

☎ 9898837713

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- It is recommended for preservation of a wide range of applications including. Polymer emulsions, adhesives, metal working fluids and also used as H<sub>2</sub>S Scavenger in Oil & Gas applications.
- Effective against a wide range of spoilage organisms and effective over a wide pH and temperature range.

#### Advantages:

- High efficiency H<sub>2</sub>S removal
- Reduced chemical consumption due to higher concentration
- Compatible with a wide range of production chemicals
- No solid by-products after reaction

#### 4. Safety and Handling

##### Hazard Statements:

- H302: Harmful if swallowed
- H330: Fatal if inhaled
- H319: Causes serious eye irritation
- H317: May cause an allergic skin reaction
- H372: Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled

Effective against following Micro-organisms		
Bacteria	Fungi	Yeasts
Bacillus subtilis Enterobacter aerogenes Escherichia coli Proteus vulgaris Proteus mirabilis Pseudomonas aeruginosa Pseudomonas fluorescens Staphylococcus aureus	Aspergillus foetidus Aspergillus niger Aspergillus oryzae Fusarium oxysporum Fusarium solani Penicillium funiculosum	Candida albicans Rhodotorula rubra Saccharomyces cerevisiae

##### Protective Equipment:

- **Respiratory Protection:** Use a respirator when exposed to vapors.
- **Hand Protection:**
  - Butyl rubber gloves for long-term use (Breakthrough time: 480 min; Thickness: 0.7 mm)
  - Nitrile rubber gloves for splash protection (Breakthrough time: 30 min; Thickness: 0.4 mm)
- **Eye Protection:** Safety goggles
- **Skin and Body Protection:** Suitable protective clothing

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#### Storage Guidelines:

- Store in the original, tightly closed container.
- Ensure good ventilation.
- Avoid storing near acids.

#### Fire-Fighting Measures:

- **Suitable Extinguishing Media:** Water spray jet, alcohol-resistant foam, dry powder, CO<sub>2</sub>
- **Unsuitable Extinguishing Media:** High-volume water jet

#### Spill Management:

- Absorb with inert materials (e.g., sand, silica gel, sawdust).
- Store absorbed material in closed containers.
- Prevent entry into drains or waterways.

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*This document is issued by Vasudev Chemo Pharma and is intended for technical reference only. Ensure proper handling as per safety guidelines.*

**VASUDEV**  
CHEMOPHARMA

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