



## MATERIAL SAFETY DATA SHEET

### Vastreat 78

#### SECTION 1- MANUFACTURER'S INFORMATION:

Manufactured by: Vasudev Chemo Pharma, Plot: 328/329, Near Asian Paint Chowkdi, GIDC, Ankleshwar, 393002  
 Bharuch - Gujarat Mobile no. +91 9898837713  
 Email : info@vasudevchemopharma.com

#### SECTION 2- HAZARDOUS INGREDIENTS

**Chemical Name:** Hexahydro-1,3,5-Tris (2-Hydroxyethyl)-S-triazine  
**Chemical Family:** Triazine  
**Formula:**

#### **Composition:**

Hexahydro-1,3,5-Tris (2-Hydroxyethyl)-S-triazine	CAS NO. 4719-04-4	Proprietary compo.
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#### SECTION 3- HAZARDS IDENTIFICATION

<b>Appearance</b>	Colourless to yellow clear liquid
<b>Eyes</b>	May causes eye burns. May cause chemical conjunctivitis and corneal damage.
<b>Skin</b>	May cause skin burns, skin sensitization, an allergic reaction
<b>Ingestion</b>	May cause irritation to mouth and stomach. Repeated ingestion can cause brain damage
<b>Inhalation</b>	Causes chemical burns to the respiratory tract.
<b>Signs and Symptoms of Overexposure</b>	<b>Eyes:</b> Redness and possible itching. <b>Skin:</b> Redness and/or itching of the skin <b>Ingestion:</b> Possible nausea and/or vomiting. <b>Inhalation:</b> Possible coughing, burning, tightness of chest and/ or shortness of breath.
<b>Carcinogenicity</b>	Not listed by OSHA
<b>Mutagenicity</b>	No data available

#### SECTION 4- FIRST AID MEASURES:

<b>Eyes:</b>	Flush with running water for at least fifteen minutes. Get medical aid.
<b>Skin:</b>	Wash thoroughly with water for min. 15 minutes. Remove contaminated clothing and clean before reuse. If irritation persists get medical aid.
<b>Ingestion:</b>	Wash out mouth with water. Get immediate medical aid. Do not induce vomiting.
<b>Inhalation:</b>	Remove from further exposure. Keep warm and at rest. If cough or other symptoms develop, seek medical attention immediately.

**SECTION 5- FIRE FIGHTING MEASURES:**

<b>Flash Point (C):</b>	>201 degree F
<b>Flammable Limits:</b>	Not established
<b>Autoignition Temperature:</b>	Not available
<b>Flammable Class:</b>	Combustible liquid
<b>Flame Propagation or Burning rate of Solids:</b>	Not available
<b>General Hazard:</b>	Evacuate personnel downwind of fire to avoid inhalation of irritating and /or harmful fumes and smoke.
<b>Extinguishing Media:</b>	Water fog, Chemical-type foam, carbondioxide.
<b>Hazardous Combustion products:</b>	Oxides of carbon and noxious fumes
<b>Fire fighting procedures:</b>	Hazardous decomposition and combustion products may be formed in fire situation. Cool exposed containers with water spray to prevent overheating.
<b>Fire Fighting Equipment:</b>	Respiratory and eye protection are required for fire fighting personnel. Full protective equipment (bunker gear) and self contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of a SCBA may not be required.
<b>Sensitive to static Discharge:</b>	Not Available
<b>Sensitivity to Impact:</b>	Not available

**SECTION 6- ACCIDENTAL RELEASE MEASURES:**

<b>Small Spill:</b>	Clean up the spills immediately wearing the appropriate equipment designated in Section 8, move the leaking container to a containment area.  Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container and dispose of at an appropriate waste disposal facility according the current applicable laws and regulations and product characteristics at time of disposal.
<b>Large Spill:</b>	Clean up the material immediately wearing the appropriate equipment designated in Section 8. Absorb on a porous, inert material and transfer to a closed container. Prevent entry into sewers, basements or confined areas. Dispose of at an appropriate waste disposal facility according the current applicable laws and regulations and product characteristics at time of disposal.
<b>Environmental Precautions</b>	Water spill: Use appropriate containment to avoid runoff or release to sewer or waterways. Land spill: Use appropriate containment to avoid runoff or release to ground. General Procedures: remove containers of strong Acids form the release area.
<b>Release Notes:</b>	If spill could potentially enter any waterway, including intermittent dry creeks, contact the local authorities.

**SECTION 7- HANDLING AND STORAGE:**

<b>Handling:</b>	Use appropriate personal protective equipment as specified in Section 8. Handle in a well-ventilated area. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices.
<b>Storage:</b>	Store in cool and dry conditions. Store away from strong acids.

**SECTION 8- EXPOSURE CONTROLS/PERSONAL PROTECTION:**

<b>Engineering Controls</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.
<b>Personal Protective Equipment</b>	<b>Eyes and Face:</b> Wear safety glasses with side shields or goggles when handling this material. <b>Skin:</b> To prevent any contact, wear impervious protective clothing such as neoprene or butyl rubber gloves, apron, boots or whole bodysuit, as appropriate. <b>Respiratory:</b> Generally not required. If necessary use Self Contained Breathing apparatus (SCBA).
<b>Work Hygienic Practices:</b>	Facilities storing or using this material should be equipped with eyewash facility and a safety shower. Good personal hygiene practices should always be followed.
<b>Comments:</b>	It contains no known hazardous ingredients.

**SECTION 9-PHYSICAL AND CHEMICAL PROPERTIES:**

<b>Physical State:</b>	Liquid
<b>Odour:</b>	Characteristic
<b>Appearance:</b>	Clear liquid
<b>Colour:</b>	Colourless to yellow
<b>pH 5 % w/w</b>	10-11
<b>Vapour Pressure:</b>	Not available
<b>Vapour Density:</b>	Estimated lighter than air
<b>Boiling Point:</b>	>212F
<b>Freezing Point</b>	NA
<b>Melting Point</b>	NA
<b>Solubility in water</b>	Soluble
<b>Evaporation Rate:</b>	NA
<b>Specific gravity at 25 ± 2°C</b>	1.100 – 1.150
<b>Molecular Formula</b>	C <sub>9</sub> H <sub>21</sub> N <sub>3</sub> O <sub>3</sub>
<b>Molecular Weight</b>	219.33
<b>Coeff. Oil/water</b>	Not Applicable

**SECTION 10- STABILITY AND REACTIVITY:**

<b>Stability:</b>	The product is stable under normal ambient conditions of temperature and pressure.
<b>Polymerization:</b>	Will not occur
<b>Hazardous Decomposition Products</b>	Nitrous Oxides and ammoniacal vapours.
<b>Exposure time</b>	Upto 4 Hours
<b>Observation time</b>	Upto 14 Days
<b>Incompatible materials:</b>	Strong Acids and oxidizing agents

**SECTION 11- TOXICOLOGICAL INFORMATION:**

<b>Oral LD<sub>50</sub> (rabbit):</b>	>20,000 mg/kg
<b>Oral-Rat LD<sub>50</sub>:</b>	763 mg/kg
<b>Skin rat LD<sub>50</sub>:</b>	>2gm/kg
<b>Eye Effects:</b>	May cause significant irritation to the eyes.
<b>Skin Effects:</b>	May cause significant irritation to the skin.
<b>Target Organs</b>	Eyes Skin Gastrointestinal tract
<b>Carcinogenicity:</b>	Not Available

<b>Mutagenicity:</b>	Not Available
<b>Reproductive Effects:</b>	Not Available
<b>Teratogenic Effects:</b>	Not available

**SECTION 12- ECOLOGICAL INFORMATION:**

**Ecological Information:** May cause environmental impact if material reaches waterways.

**Ecotoxicological Information:** Not Available

**Distribution:** Not Available

**Chemical Fate Information:** Not Available

**SECTION 13- DISPOSAL CONSIDERATIONS:**

<b>Disposal Method</b>	:	Dispose of waste at an appropriate waste disposal facility according to current applicable laws and regulations.
<b>For Large Spills</b>	:	Contain material and call local authorities for emergency assistance.
<b>Product Disposal</b>	:	Dispose of at a supervised incineration facility or an appropriate waste disposal facility according to current applicable laws and regulations and product characteristics at time of disposal.
<b>Empty Container</b>	:	Contaminated container should be cleaned and disposed of in the same as the product in accordance with applicable regulations.
<b>General Comments</b>	:	Refer to section 6, Accidental Release Measures for additional information.

**SECTION 14- TRANSPORT INFORMATION:**

**DEPT. OF TRANSPORTATION** : UN 3267

**DOT CLASSIFICATION** 8

**DOT PROPER SHIPPING NAME** : CORROSIVE LIQUID, BASIC, ORGANIC, n.o.s, (Triazine)

**OTHER DOT INFORMATION** : PG III

**SECTION 15- REGULATORY INFORMATION:**

**HEALTH: 3 FIRE: 0 REACTIVITY: 1**

**SECTION 16- OTHER INFORMATION:**

**NONE**

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