

## PROPYLTRIMONIUM

### Material Safety Data Sheet (MSDS)

#### 1. PRODUCT IDENTIFICATION

Product Name: propyltrimonium  
 INCI Name: ricinoleamido propyltrimonium methosulfate  
 Chem. N.: ricinoleamido propyltrimethyl ammonium methyl sulfate  
 CAS Number: 85508-38-9  
 EINECS Number: 287-462-9  
 Origin: synthetic

#### 2. PHYSICAL & CHEMICAL PROPERTIES

Melting Point: not determined  
 Boiling Point: 100°C (212°F)  
 Density: 0.9 g/cm<sup>3</sup> at 20°C  
 % Volatile by Volume: not determined  
 Specific Gravity: not determined  
 Solubility in water: soluble  
 pH Value: 5 - 7.5 (1% solution)  
 Appearance & Odor: clear golden liquid, faint odor

#### 3. STABILITY & REACTIVITY

Chemical Stability: stable under normal conditions  
 Incompatibility: strong oxidizing agents  
 Hazardous Decomposition: biodegradable; burning can produce carbon monoxide, carbon dioxide and oxides of nitrogen  
 Hazardous Polymerisation: will not occur

#### 4. HANDLING & STORAGE

Avoid contact with eyes. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

Avoid freezing or excessive heat. Do not handle or store near an open flame, heat or other sources of ignition. Keep the container tightly closed and in a cool, well-ventilated place.

#### 5. ACCIDENTAL RELEASE MEASURES

Isolate spill area immediately. Keep unauthorized personnel away. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, basements or confined areas. Surface may become slippery after spillage. Use vacuum or broom sweeping and remove to disposal container. If damp, flush with water.

#### 6. EXPOSURE CONTROLS & PERSONAL PROTECTION

Respiratory Protection: Where exposure likely exceeds acceptable criteria, use NIOSH/OSHA-approved respiratory equipment.  
 Protective Clothing: Gloves recommended to prevent prolonged skin contact. Safety glasses, goggles, or face shield recommended for eye protection.  
 Other Protective Measures: Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

#### 7. HAZARDS IDENTIFICATION

General: May cause irritation to skin, eyes and respiratory system.  
 Inhalation: Inhalation of vapor and mist may be irritating to the respiratory system.

Eye Contact: Eye irritant. Can cause serious damages to the eyes as blurred vision or permanent damage.  
 Skin Contact: can cause skin irritation upon prolonged or repeated exposure.  
 Ingestion: Do not ingest; may cause gastrointestinal irritation.

#### 8. FIRST AID MEASURES

Eyes: Irrigate eyes with a heavy stream of water for at least 20 minutes. Seek medical attention if symptoms persist.  
 Skin: Wash exposed areas of the body with plenty of water.  
 Inhalation: Remove from area of exposure. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.  
 Ingestion: Drink water. Do not induce vomiting. If gastrointestinal symptoms develop, consult medical personnel.

#### 9. FIRE FIGHTING MEASURES

Flash Point: not determined  
 Extinguishing Media: water spray, foam, carbon dioxide, dry powder  
 Fire Fighting Procedures: Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

#### 10. TOXICOLOGICAL INFORMATION

Acute LD50: no data available  
 Dermal and Eye Irritation Test: irritant (source: CESIO)  
 Carcinogenicity: no data available  
 Mutagenicity: no data available

#### 11. DISPOSAL CONSIDERATIONS

Storage and disposal must be in accordance with applicable local, state & federal disposal regulations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

#### 12. TRANSPORT INFORMATION

General Information: not regarded as hazardous material  
 DOT Shipping Name: Refer to corresponding hazard class  
 ADR/ R I C Code: Refer to corresponding hazard class  
 Sea Transport IMDG Code: Refer to corresponding hazard class  
 Air Transport IATA: Refer to corresponding hazard class

#### 13. DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

ALL DATA HEREIN ARE ALL AS PER OUR SUPPLIER.