

QUATERNIUM-87

Material Safety Data Sheet (MSDS)

1. PRODUCT IDENTIFICATION

Product Name: quaternium-87
 INCI Name: imidazolium quat
 Synonyms:
 CAS Number: 92201-88-2
 EINECS Number: 296-019-9
 Origin: synthetic

2. PHYSICAL & CHEMICAL PROPERTIES

Melting Point: 30°C (86°F)
 Boiling Point: not determined
 Density: 0.97 g/cm³ at 20°C
 Vapor Pressure: not determined
 Specific Gravity: not determined
 Solubility in water: dispersible
 pH Value: 4 - 6 (10% solution)
 Appearance & Odor: viscous liquid, yellowish, faint odor

3. STABILITY & REACTIVITY

Chemical Stability: stable under normal conditions
 Incompatibility: May react with strong acids or oxidizing agents
 Hazardous Decomposition: biodegradable; burning can produce carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides
 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: in case of formation of vapors or aerosols, 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: Irritant to skin and eyes.
 Inhalation: Inhalation of vapors or 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: Repeated or prolonged contact may cause irritation
 Ingestion: Do not ingest; product 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. Consult medical personnel.

9. FIRE FIGHTING MEASURES

Flash Point: > 100°C (212°C)
 Extinguishing Media: water spray, foam, carbon dioxide, or 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: not determined
 Dermal and Eye Irritation: may cause serious damage to eyes
 Carcinogenicity: not data available
 Mutagenicity: not 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

DOT Shipping Name: not regulated
 ADR/ RIC Code: not regulated
 Sea Transport IMDG Code: not regulated
 Air Transport IATA: not regulated

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.