

# SAFETY DATA SHEET

## Section 1: Identification

**Product Name:** PiperION®-A-HCO3 AEM

**Chemical Name/Synonyms:** poly[(p-terphenyl-4,4'-diyl)(N,N-dimethyl-piperidinium-bicarbonate-4,4'-diyl)-co-(p-terphenyl-4,4'-diyl)(2,2,2-trifluoro-1-phenylethylidene-diyl)]; PAP-TP-85-HCO3

**Company:** Versogen

**In emergency call 911.**

**For information about this SDS, use this department contact phone#:** +1 302-303-1549

## Section 2: Hazard(s) Identification

See <https://www.sigmaaldrich.com/safety-center/globally-harmonized.html> for a list of hazard classifications, signal words, hazard statements, pictograms, precautionary statements, and a description of hazards.

**Signal word:** Warning

**Pictograms:**



### Hazards statement:

**H302+H312:** Harmful if swallowed or in contact with skin

**H411:** Toxic to aquatic life with long lasting effects

### Precautionary Statements:

**P261:** Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

**P304 + P340 + P312:** If inhaled remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

## Section 3: Composition/ Information on Ingredients

Chemical Name	Synonym	CAS#	Conc.
poly[(p-terphenyl-4,4'-diyl)(N,N-dimethyl-piperidinium-bicarbonate-4,4'-diyl)-co-(p-terphenyl-4,4'-diyl)(2,2,2-trifluoro-1-phenylethylidene-diyl)]	4-Piperidinone, 1-methyl-, polymer with 1,1':4',1"-terphenyl and 2,2,2-trifluoro-1-phenylethanone, compd. with N-methyl, carbonates; PAP-TP-85-HCO3.	2304456-81-1	100%

#### Section 4: First-Aid Measures

**In case of skin contact:**

Wash off with soap and plenty of water. Call a physician if skin irritation persists.

**In case of eye contact:**

Flush eyes with water as a precaution. Call a physician if irritation persists.

**If swallowed:**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Call a physician if irritation persists.

#### Section 5: Fire-Fighting Measures

**Suitable extinguishing agents:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

#### Section 6: Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:**

Avoid dust formation. Avoid breathing vapors, mist or gas. For personal protection see section 8.

**Environmental precautions:** Do not let product enter drains.

**Methods and materials for containment and cleaning up:** Sweep up and shovel. Keep in suitable, closed containers for disposal.

**Reference to other sections:** For disposal see section 13.

#### Section 7: Handling and Storage

**Precautions for safe handling:**

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.

**Conditions for safe storage, including any incompatibilities:**

Keep container tightly closed in a cool, dry and well-ventilated place.

#### Section 8: Exposure Controls/Personal Protection

**General protective and hygienic measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Breathing equipment:** Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Protection of hands:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye protection:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Section 9: Physical and Chemical Properties

**Form:** Solid  
**Color:** Colorless or light yellow  
**Odor:** none  
**Odor threshold:** No data available  
**pH:** 7-8  
**Melting point/melting range:** No data available  
**Boiling point/boiling range:** No data available  
**Flash point:** No data available  
**Evaporation rate:** No data available  
**Flammability:** No data available  
**Upper/lower flammability or explosive limits:** No data available  
**Auto ignition temperature:** No data available  
**Danger of explosion:** No data available  
**Vapor pressure:** No data available  
**Vapor density:** No data available  
**Relative density:** No data available  
**Solubility in/Miscibility with water:** No data available

### Section 10: Stability and Reactivity

**Reactivity:** No data available  
**Chemical stability:** Stable under recommended storage conditions.  
**Conditions to avoid:** Heat  
**Incompatible materials:** Amines, Strong reducing agents, Strong oxidizing agents, Bases  
**Hazardous decomposition products:** Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides Other decomposition products - No data available. In the event of fire: see section 5

### Section 11: Toxicological Information

**Acute toxicity:** No data available  
**Potential routes of exposure/potential health effects**  
**Skin:** No data available  
**Eye:** No data available  
**Inhalation:** No data available  
**Ingestion:** No data available  
**Carcinogenic effects:** No data available  
**Mutagenic effects:** No data available  
**Reproductive toxicity:** No data available  
**Sensitization:** No data available  
**Target organs:** No data available

### Section 12: Ecological Information (non-mandatory)

**Ecotoxicity:** No data available  
**Mobility:** No data available  
**Biodegradation:** No data available  
**Bioaccumulation:** No data available

### Section 13: Disposal Considerations (non-mandatory)

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

### Section 14: Transport Information (non-mandatory)

**DOT (US):** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

### Section 15: Regulatory Information (non-mandatory)

**TSCA 8 (b) Inventory Status:** All components are listed as active or are exempt from listing on the Toxic Substances Control Act (TSCA) inventory. This product contains one or more components with a Low Volume Exemption (LVE) in accordance with 40 CFR 723.50. Quantities may be limited. This product contains one or more components with a Polymer Exemption in accordance with 40 CFR 723.250.

**TSCA 12 (b) Export Notification:** None above reporting de minimis

**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** No SARA Hazards

**Massachusetts Right To Know Components:** No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components:** No components are subject to the Pennsylvania Right To Know Act.

**New Jersey Right To Know Components:** No components are subject to the New Jersey Right To Know Act.

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### Section 16: Other Information

**SDS date of preparation/update:** July 15, 2025