

SAFETY DATA SHEET

Section 1: Identification

Product Name: PiperION®-A-HCO₃ Resin

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 work: Warning

Pictograms:



Hazards statement:

H302+H312+H332: Harmful if swallowed or in contact with skin or if inhaled

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-HCO ₃ .	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 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 7, 2025