

MATERIAL SAFETY DATA SHEET

Section 1 - Identification

Product identifier	2-Chlorotrityl Chloride Resin
Catalog No.	AS2060
Other identifiers	2-CTC Resin; 2-CITrt Resin; 2-Chlorotrityl Resin
Recommended use	Laboratory research and solid-phase peptide synthesis (SPPS).
Restrictions on use	For research use only. Not for human or veterinary use, therapeutic use, diagnostic use, food, household, or consumer applications.
Responsible party	Alan Scientific Inc.
U.S. address	9031 Shady Grove Court, Gaithersburg, MD 20877 U.S.
Contact	+1 888-757-1116 contactus@alanscientific.com www.alanscientific.com
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Section 2 - Hazard(s) Identification

OSHA HCS classification	Skin Irritation Category 2; Eye Irritation Category 2; Specific Target Organ Toxicity - Single Exposure Category 3 (respiratory irritation).
Signal word	Warning
Pictogram	
Hazard statements	H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
Precautionary statements	Avoid breathing dust. Wash thoroughly after handling. Use with adequate ventilation. Wear protective gloves and eye protection. If inhaled, move to fresh air. If in eyes, rinse cautiously with water for several minutes. If skin irritation or persistent eye irritation occurs, obtain medical advice.
Hazards not otherwise classified / other hazards	Dust generation should be minimized. Reactive chloride functionality is moisture-sensitive; contact with moisture may release hydrogen chloride locally and reduce resin loading.

Section 3 - Composition / Information on Ingredients

Substance / mixture	Substance / polymer-supported resin
Chemical name	2-Chlorotrityl chloride, polymer-bound resin
CAS No.	934816-82-7
Molecular formula	Not applicable - polymer-supported resin
Molecular weight	Not applicable - polymer-supported resin
Purity / concentration	Product-specific resin specifications; refer to the lot-specific Certificate of Analysis (COA).
Loading / mesh / crosslinking	Lot- or grade-specific; refer to the COA. These parameters are not defined by CAS number alone.

Section 4 - First-Aid Measures

Inhalation: Move to fresh air and keep comfortable for breathing. Obtain medical attention if respiratory symptoms occur or persist. Skin contact: Remove contaminated clothing and wash with soap and plenty of water. Eye contact: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do, then continue rinsing. Obtain medical advice if irritation persists. Ingestion: Rinse mouth. Do not induce vomiting unless directed by medical personnel. Obtain medical advice if unwell.

Section 5 - Fire-Fighting Measures

Suitable extinguishing media: Water spray, foam, dry chemical or carbon dioxide as appropriate for the surrounding fire. Combustible organic polymeric material. Thermal decomposition or fire may generate carbon oxides, hydrogen chloride and other chlorinated decomposition products. Fine airborne dust may present a combustible-dust hazard. Firefighters should wear self-contained breathing apparatus and suitable protective equipment when conditions warrant.

Section 6 - Accidental Release Measures

Avoid generating or inhaling dust. Provide adequate ventilation and wear suitable personal protective equipment. Sweep or vacuum dry material carefully and place it in a suitable closed container for disposal. Prevent product and polymer particles from entering drains or the environment.

Section 7 - Handling and Storage

Keep tightly closed, dry and protected from moisture. Store in a cool, well-ventilated area away from strong oxidizing agents. Follow the product label and lot-specific COA for temperature requirements.

Section 8 - Exposure Controls / Personal Protection

Occupational exposure limits	No substance-specific OSHA PEL or ACGIH TLV identified in the currently reviewed source documentation.
Engineering controls	Use general laboratory ventilation. Local exhaust may be appropriate where dust is generated.
Eye / face protection	Safety glasses or chemical splash goggles appropriate to the operation.
Skin / body protection	Suitable chemical-resistant gloves and laboratory clothing.
Respiratory protection	Normally not required for controlled handling. If airborne dust is generated and ventilation is insufficient, use appropriate particulate respiratory protection.
Hygiene measures	Wash hands after handling. Do not eat, drink or smoke in chemical handling areas.

Section 9 - Physical and Chemical Properties

Physical state	Solid
Appearance	Solid resin beads; typically pale yellow to light brown
Odor	No data available
pH	No data available
Melting point / freezing point	Not applicable or no data available for the polymer-supported resin
Boiling point / range	Not applicable or no data available
Flammability	Combustible organic solid; no numerical flammability data available
Flash point	Not applicable to the supplied solid or no data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Vapor pressure	Not applicable / no data available
Density / relative density	No data available
Water solubility	Insoluble polymeric support; quantitative data not established
Particle characteristics	Resin bead or powder specification is lot/grade-specific; refer to COA
Molecular weight	Not applicable - polymer-supported resin

Section 10 - Stability and Reactivity

Chemically stable when kept dry under recommended storage conditions. Avoid moisture, excessive heat and strong oxidizing agents. Reactive chloride sites can hydrolyze in the presence of moisture.

Section 11 - Toxicological Information

Likely exposure routes	Inhalation of dust, eye contact, skin contact, and ingestion.
Acute toxicity	No numerical acute-toxicity data available for the supplied resin.
Skin corrosion / irritation	Causes skin irritation.
Serious eye damage / irritation	Causes serious eye irritation.
Respiratory effects	May cause respiratory irritation.
Respiratory / skin sensitization	No data available.
Germ cell mutagenicity	No data available.
Carcinogenicity	No product-specific carcinogenicity data available.
Reproductive toxicity	No data available.
STOT - repeated exposure	No data available.
Aspiration hazard	Not applicable to the supplied solid based on available information.
Additional information	Toxicological properties have not been fully characterized. Handle using good laboratory hygiene and safety practice.

Section 12 - Ecological Information

No quantitative ecotoxicity, persistence, bioaccumulation or mobility data are available for the supplied resin. Avoid unnecessary environmental release. Polymer particles should not be released to drains, surface water or soil.

Section 13 - Disposal Considerations

Dispose of product, residues and contaminated packaging in accordance with applicable federal, state, local and institutional requirements. Do not mix with incompatible waste streams. Handle uncleaned containers as product residue.

Section 14 - Transport Information

Transport status	Not regulated as dangerous goods under U.S. DOT/IATA/IMDG based on currently reviewed reference supplier transport information.
UN number	Not assigned.
UN proper shipping name	Not assigned.
Transport hazard class(es)	Not assigned.
Packing group	Not assigned.
Environmental hazards	Not identified as a marine pollutant based on currently reviewed information.
Special precautions	Protect containers from damage and moisture; minimize dust generation during handling.

Section 15 - Regulatory Information

OSHA HCS / hazard communication	Hazard communication classification used in this MSDS: Skin Irritation Category 2, Eye Irritation Category 2, and Specific Target Organ Toxicity - Single Exposure Category 3 (respiratory irritation), consistent with multiple current supplier safety classifications for CAS 934816-82-7.
Inventory / other regulatory status	Not established in this document. Users and importers are responsible for confirming applicable federal, state and local inventory, reporting and use requirements for the specific transaction and lot.

Section 16 - Other Information

Revision	1.0
Date of preparation / revision	2026-09-06
Revision summary	Initial Alan Scientific resin MSDS prepared using the current no-logo MSDS format and product-specific resin hazard assessment.
Data / assessment basis	Alan Scientific product identity; current supplier safety documentation for 2-Chlorotrityl Chloride Resin (including U.S. and European supplier classifications); OSHA Hazard Communication Standard (29 CFR 1910.1200).
Product-specific note	Published supplier classifications for CAS 934816-82-7 are not fully uniform. This MSDS uses the more conservative irritant classification reported by multiple current suppliers; lot-specific upstream supplier documentation should be reviewed for final release control.

Safety information notice: The information is provided in good faith for safe handling of the supplied research material and is based on information reasonably available as of the revision date. It is not a product specification or warranty. Users are responsible for determining suitability, controls, and regulatory obligations for their specific use.