



SIGMA-ALDRICH

## Material Safety Data Sheet

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Version 1.40

### Section 1 - Product and Company Information

Product Name Poly(styrene-co-acrylonitrile)  
Product Number 182850  
Brand Aldrich Chemical  
Company Sigma-Aldrich  
Street Address 3050 Spruce Street  
City, State, Zip, Country SAINT LOUIS, MO 63103 US  
Technical Phone: 800-325-5832  
Fax: 800-325-5052  
Emergency Phone: 314-776-6555

### Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313	EC no	Annex I Index Number
POLY(STYRENE-CO-ACRYLONITRILE)	9003-54-7	No		

Formula C<sub>11</sub>H<sub>11</sub>N  
Synonyms Acrlafil, Acrylonitrile-styrene copolymer, Acrylonitrile-styrene polymer, Acrylonitrile-styrene resin, AS 61CL, Bakelite RMD 4511, Cevian HL, Cevian N, Cevian NF, Denka AS-CY, Dialux, Dikaril, Estyrene AS, FN 20, FN 25, Kostil, Kostil 235, Kostil AN (atx) 2010, Kralac 1155, Litac, Litac C 100P, LNA 21-1000, Lorkaril, Luran, Luran 378P, Luran 368R, Lustran, Lustran 28, Lustran A, Lustran A 2i, Lustran A 2121, Lustran LNA 2i, Lustran SAN, Piccoflex, Polysan, Polystyrene-acrylonitrile, 2-Propenenitrile polymer with ethenylbenzene (9CI, Rexene 106, RMD 4500, Ronfalin S, Sahrekkusu, SAN-C, Sanrex, Sanrex C, Sanrex sanc, Sanrex san-H, Sepian N 050, Sepian N 6000HL, SN 20, SN 25, SN 20A, SNP 2, SN 20P, Styren-acrylonitrile polymer, Styrene-acrylonitrile copolymer, Terulan KP 2540, Terulan KR 2540, Thermocomp BF, Trolitul en, Tyril, Tyril 760, Tyril 767, Tyril 780, Tyril 783, Tyril 790, Tyril 860, Tyril 867, Tynifoam

### Section 3 - Hazards Identification

#### Emergency Overview

Harmful.  
Harmful if swallowed.

#### HMIS Rating

Health: 1 Flammability: 0 Reactivity: 0

#### NFPA Rating

Health: 1 Flammability: 0 Reactivity: 0

For additional information on toxicity, please refer to Section 11.

### Section 4 - First Aid Measures

#### Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

#### Inhalation Exposure

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

#### Dermal Exposure

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

#### Eye Exposure

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

### Section 5 - Fire Fighting Measures

#### Explosion Hazards

May form explosive mixtures with air

Autoignition Temp: N/A

#### Extinguishing Media

##### Suitable

Water spray, Carbon dioxide, dry chemical powder, or appropriate foam.

#### Firefighting

##### Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

##### Specific Hazard(s)

Emits toxic fumes under fire conditions.

### Section 6 - Accidental Release Measures

#### Procedure to be Followed in Case of Leak or Spill

Evacuate area.

#### Procedure(s) of Personal Precaution(s)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

#### Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

### Section 7 - Handling and Storage

#### Handling

##### User Exposure

Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

#### Storage

##### Suitable

Keep tightly closed.

### Section 8 - Exposure Controls / PPE

#### Engineering Controls

Safety shower and eye bath. Mechanical exhaust required.

#### Personal Protective Equipment

##### Respiratory

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

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Hand  
Compatible chemical-resistant gloves.  
Eye  
Chemical safety goggles.

**General Hygiene Measures**  
Wash thoroughly after handling.

## Section 9 - Physical/Chemical Properties

**Appearance**  
**Physical State**  
Solid

**Molecular Weight:** N/A

pH N/A  
BP/BP Range N/A  
MP/MP Range N/A  
Freezing Point N/A  
Vapor Pressure N/A  
Vapor Density N/A  
Saturated Vapor Conc. N/A  
SG/Density N/A  
Bulk Density N/A  
Odor Threshold N/A  
Volatile% N/A  
VOC Content N/A  
Water Content N/A  
Solvent Content N/A  
Evaporation Rate N/A  
Viscosity N/A  
Partition Coefficient N/A  
Decomposition Temp. N/A  
Flash Point °F N/A  
Flash Point °C N/A

**Explosion Limits** N/A

**Flammability** N/A  
**Autoignition Temp** N/A  
**Solubility** N/A

N/A = not available

## Section 10 - Stability and Reactivity

**Stability**  
Stable.  
**Materials to Avoid**  
Strong oxidizing agents.

**Hazardous Decomposition Products**  
**Hazardous Decomposition Products**  
Carbon monoxide, Carbon dioxide, Hydrocarbons, Nitrogen oxides, Hydrogen cyanide.

**Hazardous Polymerization**  
**Hazardous Polymerization**  
Will not occur.

## Section 11 - Toxicological Information

**Route of Exposure**  
**Skin Contact**  
May cause skin irritation.  
**Skin Absorption**  
May be harmful if absorbed through the skin.  
**Eye Contact**  
May cause eye irritation.  
**Inhalation**  
Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.  
**Ingestion**  
Harmful if swallowed.

**Sensitization**  
**Sensitization**  
Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

**Signs and Symptoms of Exposure**  
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**RTECS Number:** AT6978000

### Toxicity Data

Oral - Rat: 1800 mg/kg (LD50)  
Remarks: Liver:Other changes.  
Oral - Mouse: 1000 mg/kg (LD50)  
Remarks: Liver:Other changes.

**Chronic Exposure - Carcinogen**  
Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

**IARC Carcinogen List**  
Rating  
Group 3

## Section 12 - Ecological Information

No data available.

## Section 13 - Disposal Considerations

**Appropriate Method of Disposal of Substance or Preparation**  
Contact a licensed professional waste disposal service to dispose of this material.  
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.  
Observe all federal, state, and local environmental regulations.

## Section 14 - Transport Information

**DOT**  
**Proper Shipping Name:** None  
**Non-Hazardous for Transport:** This substance is considered to be non-hazardous for transport.

**IATA**

Non-Hazardous for Air Transport: Non-hazardous for air transport.

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**Section 15 - Regulatory Information**

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**EU Additional Classification**

Symbol of Danger: Xn

Indication of Danger

Harmful.

Risk Statements

R: 22

Harmful if swallowed.

**US Classification and Label Text**

Indication of Danger

Harmful.

Risk Statements

Harmful if swallowed.

**United States Regulatory Information**

SARA Listed: No

TSCA Inventory Item: Yes

**Canada Regulatory Information****WHMIS Classification**

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

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**Section 16 - Other Information**

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**Disclaimer**

For R&D use only. Not for drug, household or other uses.

**Warranty**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2007 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.