



SIGMA-ALDRICH

Material Safety Data Sheet

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Section 1 - Product and Company Information

Product Name Poly(vinyl chloride)
Product Number 189588
Brand Aldrich Chemical

Company Sigma-Aldrich
Street Address 3050 Spruce Street
City, State, Zip, Country SAINT LOUIS, MO 63103 US
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Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313	EC no	Annex I Index Number
POLY(VINYL CHLORIDE)	9002-86-2	No		
Formula	C ₂ H ₃ Cl			
Synonyms	AL 30, AL 31, Armodour, ARON compound HW, Astralon, Atactic poly(vinyl chloride), Bakelite QSAH 7, Bakelite QYAC 10, Bakelite QYJV 1, Bakelite QYOH 1, Bakelite QYSL 7, Bakelite QYTO 7, Bakelite UCA 3310, Blacar 1716, Bolatron 6200, Bollaron, Bonloid, Breon Breon 107, Breon 113, Breon 121, Breon 151, Breon 125/10, Breon 111EP, Breon 112EP, Breon P 130/1, Breon S 110/10, Breon S 125/12, C 65, Carina, Carina S 7971, Chloroethene homopolymer (9Cl), Chloroethylene polymer, Chlorostop, Cobex (polymer), Contizel, Corvic 55/9, Corvic 65/50, Corvic 20560600, Corvic 20650600, Corvic C 65/02, Corvic D 57/17, Corvic D 60/11, Corvic D 65/02, Corvic D 6518, Corvic D 75/10, Corvic H 55/34, Corvic P 65/50, Corvic P 65/54, Corvic P 65/55, Corvic R 65/81, Dacovin, Dacovin 2082, Danuvil 70, Darvic 110, Darvic clear 025, Decelith H, Denka vinyl SS 80, Denka vinyl SS-Y, Diamond shamrock 40, Diamond shamrock 71, Diamond shamrock 7602, DN 4, DN 5, Doriyl, Durofol P, Dynadur, E 62, E 66, Ekavyl SD 2, Ekavyl SDF 58, Ekavyl SK64, Ekavyl SK66, E 66P, 103EP8, E-Pvc, Escambia 2160, Escambia 2200, Europhan, Exon 605, Exon 654, Exon 965, Exon 9269, Exon 9290, FC 4648, Floorc, Galcote, Genotherm, Genotherm N, GEON, GEON 51, GEON 59, GEON 72, GEON 101, GEON 103, GEON 121, GEON 124, GEON 18, GEON 128, GEON 131, GEON 151, GEON 85542, GEON 101EP, GEON 102EP, GEON 103EP, GEON 103EP8, GEON 103EPF7, GEON 135J, GEON 121L, GEON latex 151, GEON 110X233, GEON 120X241, Guttadena, Halvic 223, Halvic 229, HC 825, Hishirex 502, Hishirex 502Z, Hispavie 229, Hostalit, Hostalit E, Hostalit P 7078, Hostalit PVP 3475, Hostalit PVP 5470, Hostalit S, Hostalit S 4070, HX-M, Igelite F, Igelite P, Improved wilt prof, Kanevinyl PSH 10, Kanevinyl PSL 81, Kanevinyl S 1001, Kanevinyl S 1007, Kaylite, KHS 010, KHSE 3, Kiegecell, Kohiner R 687, Koroseal, KR 800, Kureha S 901, L 5, LAK KH SL, Lonza 380 ES, Lonza G, Lucovflex, Lucovyl BB 800, Lucovyl BB 8010, Lucovyl GB 1150, Lucovyl GB 9550, Lucovyl GS 1200, Lucovyl GS 8001, Lucovyl PB 1302, Lucovyl PE, Lucovyl PE 1100, Lucovyl PE 1290, Lucovyl PE 1311, Lucovyl PE 1355, Lucovyl RB 8010, Lutofan, Marvinal, Marvinal, Marvinal 14, Marvinal 53, Marvinal 57, Marvinal 7000, Marvinal VR 50, Marvinal VR 53, Mirrex MCFD 1025, Movinyl 100, Mowilith F, Myraform, NCI-C60797, Nika-Temp, Nikavinyl SG 700, Nipeon A 21, Nipol 576, Nipolit CM 081, Nipolit SL 081, Nipolit SK, Nipolit SK 081, Nipolit SM 092, Nipolit SV 13081, Norvinyl, Norvinyl P 2, Norvinyl P10, Norvinyl S 1-70, Norvinyl S 1-80, Norvinyl S 3-68, Novon 712, Ongrovil S 165, Ongrovil S 470, Opalon, Opalon 410, Opalon 440, Opalon 610, Opalon 630, Opalon 650, Opalon 660, Opalon R 7611, Ortodur, Pantasote R 873, Parclod, Pattina V 82, Pevikon D 61, Pevikon KL 2, Pevikon PE 709, Pevikon PE 712, Pevikon PS 690, Pevikon R 23, Pevikon R 25, Pevikon R 45, Pevikon R 341, Pevikon S 602, Pliovic, Pliovic D 100X, Pliovic DB 80V, Pliovic K 906, Pliovic K 90E, Pliovic S 50, POK 60, Polivinil, Polwinit, Poly(chloroethylene), Polycy 2622, Polytherm,			

Polyvinylchlorid (German), Polyvinyl chloride, Porodur, Prototype III soft, PVC, Pvkhl 4, Pvkhs 60, Pvkhs-S 63ZH, QSAH 7, QSAN 7, Quirvil, Quirvil 278, QYSA, Ravinit R 100/65D, Ravinyl, Rucon B 20, Ryurene S 800B, S 61, S 65 (Polymer), S 70, S 901, SCON 5300, Sicron, Sicron 530, Sicron 540, Sicron 548, Sicron 548FM, SKHV 71, S-Lon, SM 200, Solvic, Solvic 223, Solvic 229, Solvic 239, Solvic 334, Solvic 340, Solvic 406, SP 60, SP 60 (Chlorocarbon), SR11, Sumilit EXA 13, Sumilit PX-A, Sumilit PXA 13, Sumilit PX-N, Sumilit PXNH, Sumilit PX-NL, Sumilit S-chi-D, Sumilit SX 11, Sumilit SX 13, Sumilit SX 7G, Sumilit VS 9200, Sumitomo PX 11, SV 55, SX 11, SX 7G, SX 8T, Takilon, Technopor, Tenneco 1742, TK 1000, Tocril C 440, Trovidur, Trovidur N, Trovithern HTL, TS 1100, U 1, U 1 (Polymer), Ultron, Unichem, VA 6, VC 100, VC 410, Veron P 130/1, Vestolit B 7021, Vestolit GH, Vestolit S 60, Vestolit S 6554, Vestolit S 6857, Vestolit S 7054, Vestolit S 7554, Vestolit S 8054, Vinika KR 600, Vinika KR 800, Vinika 37M, Vinika 35R, Vinikulon, Viniplast, Viniplen P 73, Viniplen P 74, Viniplen P 73E, Viniplen P 73EM, Vinnol H 75, Vinnol H 100/65, Vinnol H 100/70, Vinnol H 60D, Vinnol H 70D, Vinnol H 100/70D, Vinnol H 75F, Vinnol P 70, Vinnol P 70E, Vinnol P 100/70E, Vinnol Y, Vinoflex, Vinoflex P 313, Vinylchlon 4000LL, Vinyl chloride homopolymer, Vinyl chloride polymer, Vinylite QYJV, Viplast RA/F, Volgovinyl E 62, Volgovinyl E 62P, Volgovinyl E 66P, VSKH-S, Vygen 85, Vygen 110, Vygen 120, Vygen 313, Welvic G 2/5, Welvic Pro 953, Welvic Pro 686, Welvic R 7/622, Welvic RI 7/316, Welvic Rio 715, Wilt Pruf, Winidur, X-AB, Yugovinyl

Section 3 - Hazards Identification

Emergency Overview

Irritant.
Irritating to eyes, respiratory system and skin.

HMIS Rating

Health: 2 Flammability: 0 Reactivity: 0

NFPA Rating

Health: 2 Flammability: 0 Reactivity: 0

*additional chronic hazards present.

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 contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures

Autoignition Temp: 454 °C

Extinguishing Media Suitable

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

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Safety

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(s) of Personal Precaution(s)**

Wear respirator, chemical safety goggles, 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.

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

Color

White

Form

Powder

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

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Saturated Vapor Conc.	N/A
SG/Density	1.385 g/cm3
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	454 °C
Refractive Index	1.539
Solubility	N/A

N/A = not available

Section 10 - Stability and Reactivity**Stability****Stable**

Stable

Materials to Avoid

Strong oxidizing agents

Hazardous Decomposition Products**Hazardous Decomposition Products**

Carbon monoxide, Carbon dioxide, Hydrogen chloride gas

Hazardous Polymerization**Hazardous Polymerization**

Will not occur.

Section 11 - Toxicological Information**Route of Exposure****Skin Contact**

Causes skin irritation.

Skin Absorption

May be harmful if absorbed through the skin.

Eye Contact

Causes eye irritation.

Inhalation

Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion

May be harmful if swallowed.

Signs and Symptoms of Exposure

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

RTECS Number: KV0350000

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.

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Rat - Oral: 210 GM/KG 30W C
Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or Respiration: Tumors. Skin and Appendages: Other: Tumors.

Rat - Implant: 75 MG/KG
Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site of application.

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 nonhazardous for transport.

IATA

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

Section 15 - Regulatory Information

EU Additional Classification

Symbol of Danger: Xi

Indication of Danger

Irritant.

Risk Statements R: 36/37/38

Irritating to eyes, respiratory system and skin.

Safety Statements S: 26 36/37

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves.

US Classification and Label Text

Indication of Danger

Irritant.

Risk Statements

Irritating to eyes, respiratory system and skin.

Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves.

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.

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DSL: Yes
NDSL: No

Section 16 - Other Information

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 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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