

14035



rev: 2/1/2006

SIGMA-ALDRICH

Material Safety Data Sheet

Date Printed: 09/01/2006
Date Updated: 02/01/2006
Version 1.50

Section 1 - Product and Company Information

Product Name	Polyethylene, powder, spectrophotometric grade		
Product Number	269352		
Brand	Aldrich Chemical		
Company	Sigma-Aldrich		
Street Address	3050 Spruce Street		
City, State, Zip, Country	SAINT LOUIS, MO 63103 US		
Technical Phone:	Emergency Phone:	314-776-6555	
Fax:	800-325-5832 800-325-5052		

Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313	EC no	Annex I Index Number
POLYETHYLENE	9002-88-4	No		
Formula Synonyms	C2H4 AC 8, AC 394, AC 680, AC 1220, AC GA, ACP 6, AC 8 (Polymer), Acroart, Agilene, Alathon 14, Alathon 15, Alathon 1560, Alathon 6600, Alathon 7026, Alathon 7040, Alathon 7050, Alathon 7140, Alathon 7511, Alathon 5B, Alathon 71XHN, Alcowax 6, Aldyl A, Alithon 7050, Alkathene, Alkathene 17/04/00, Alkathene 22 300, Alkathene 200, Alkathene ARN 60, Alkathene WJG 11, Alkathene WNG 14, Alkathene XDG 33, Alkathene XJK 25, Allied PE 617, Alphex FIT 221, Ambythene, Amoco 610A4, A 60-20R, A 60-70R, Bakelite DFD 330, Bakelite DHDA 4080, Bakelite DYNH, Bareco polywax 2000, Bareco wax C 7500, Bicolene C, BPE-I, Bralen KB 2-11, Bralen RB 03-23, Bulen A, Bulen A 30, Carlona 58-030, Carlona 900, Carlona 18020 FA, Carlona PXB, Chemcor, Chemplex 3006, CIPE, Coathylene HA 1671, Courlene-X3, CPE, CPE 16, CPE 25, Cryopolythene, Cry-o-vac L, Daisolac, Daplen, Daplen 1810 H, DFD 0173, DFD 0188, DFD 2005, DFD 6005, DFD 6032, DFD 6040, DFDJ 5505, DGNB 3825, Diothene, Dixopak, DMDJ 4309, DMDJ 5140, DMDJ 7008, Dowlex film, DQDA 1868, DQWA 0355, DXM 100, Dyall, Dylan, Dylan super, Dylan WPD 205, DYNH, DYNK 2, Eitex, Eitex 6037, Eitex A 1050, Epolene C, Epolene C 10, Epolene C 11, Epolene E, Epolene E 10, Epolene E 12, Epolene N, Ethene polymer, Etherin, Etherol E, Ethylene homopolymer, Ethylene polymer, Ethylene polymers (8CI), 23F203, Fabritone PE, FB 217, Fertene, Flamolin MF 15711, Flothene, FM 510, Fortiflex 6015, Fortiflex A 60/500, FP 4, 2100 GP, G-Resins, Grex, Grex PP 60-002, Grisolen, HFDB 4201, HI-Fax, HI-Fax 1900, HI-Fax 4401, HI-Fax 4601, Hizex, Hizex 5000, Hizex 5100, Hizex 3000B, Hizex 3300F, Hizex 7000F, Hizex 7300F, Hizex 1091J, Hizex 1291J, Hizex 1300J, Hizex 2100J, Hizex 2200J, Hizex 2100LP, Hizex 5100LP, Hizex 6100P, Hizex 3000S, Hizex 3300S, Hizex 5000S, Hoechst PA 190, Hoechst Wax PA 520, Hostalen, Hostalen GD 620, Hostalen GD 6250, Hostalen GF 4760, Hostalen GF 5750, Hostalen GM 5010, Hostalen GUR, Hostalen HDPE, Interflo, Irax, Irrathene R, Lacqten 1020, LD 400, LD 600, LDPE 4, Lupolen 4261A, Lupolen 6042D, Lupolen 1010H, Lupolen 1800H, Lupolen 1810H, Lupolen 6011H, Lupolen KR 1032, Lupolen KR 1051, Lupolen KR 1257, Lupolen 6011L, Lupolen L 6041D, Lupolen N, Lupolen 1800S, Manolene 6050, Marlex 9, Marlex 50, Marlex 60, Marlex 960, Marlex 6003, Marlex 6009, Marlex 6015, Marlex 6050, Marlex 6060, Marlex EHM 6001, Marlex M 309, Marlex TR 704, Marlex TR 880, Marlex TR 885, Marlex TR 906, Microthene, Microthene 510, Microthene 704, Microthene 710, Macrothene F, Microthene FN 500, Microthene FN 510, Microthene MN 754-18, Mirason 9, Mirason 16, Mirason M 15, Mirason M 50, Mirason M 68, Mirason Neo 23H, Mirathen, Mirathen 1313, Mirathen 1350, Moplen RO-QG 6015, Neopolen, Neopolen 30N, Neozex 45150, Neozex 4010B, Noppl (polymer), Novatec JUO 80, Novatec JVO 80, NVC 9025, Okiten G 23, Orizon, Orizon 805, 6020P, PA 130, PA 190, PA 520, PA 560, PAD 522, P 2010B, PE 512, PE 617, PEN 100, PEP 211, PES 100, PES 200, Petrothene, Petrothene LB 861, Petrothene LC 731,			

Petrothene LC 941, Petrothene NA 219, Petrothene NA 227, Petrothene XL 6301, P 4007EU, P 4070L, Planium, Plaskon PP 60-002, Plastazote X 1016, Plastronga, Plastylene MA 2003, Plastylene MA 7007, Politen, Politen I 020, Polyaethylen (German), Poly-Em 12, Poly-Em 40, Poly-Em 41, Polyethylene AS, Polyethylene resins, Polymist A12, Polymul CS 81, Polysion N 22, Polythene, Polywax 1000, Porolen, P 2070P, PPE 2, Procene UF 1.5, Profax A 60-008, P 2020T, P 2050T, P 4007T, PTS 2, PVP 8T, PY 100, RCH 1000, Repoc, Rigidex, Rigidex 35, Rigidex 50, Rigidex Type 2, Roppl, Ropothene OB.03-110, Sanwax 161P, Sclair 59, Sclair 2911, Sclair 19A, Sclair 96A, Sclair 59C, Sclair 79D, Sclair 11K, Sclair 19X6, SDP 640, Sholex 5003, Sholex 5100, Sholex 6000, Sholex 6002, Sholex F 171, Sholex F 6050C, Sholex F 6080C, Sholex 4250HM, Sholex L 131, Sholex S 6008, Sholex super, Sholex XMO 314, Socarex, SRM 1475, SRM 1476, Staffen E 650, Stamylian 900, Stamylian 1000, Stamylian 1700, Stamylian 8200, Stamylian 8400, Sumikathene, Sumikathene F 101-1, Sumikathene F 210-3, Sumikathene F 702, Sumikathene G 201, Sumikathene G 202, Sumikathene G 701, Sumikathene G 801, Sumikathene G 806, Sumikathene hard 2052, Sunwax 151, Super dylan, Suprathen, Suprathen C 100, Takathene, Takathene P 3, Takathene P 12, Telcotene, Telecothene, Tenaplas, Tenite 800, Tenite 1811, Tenite 2910, Tenite 2918, Tenite 3300, Tenite 3340, Trovidur PE, Tyrin, Tyvek, Unifos DYOB S, Unifos EFD 0118, Valeron, Valspex 155-53, Velustral KPA, Vestolen, Vestolen A 616, Wax LE, WJG 11, WNF 15, WVG 23, XL 335-1, XL 1246, XNM 68, XO 440, Yukalon EH 30, Yukalon HE 60, Yukalon K 3212, Yukalon LK 30, Yukalon MS 30, Yukalon PS 30, Yukalon YK 30, ZF 36

Section 3 - Hazards Identification

HMS Rating
Health: 0 Flammability: 0 Reactivity: 0

NFPA Rating
Health: 0 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 breathing becomes difficult, call a physician.

Dermal Exposure
In case of contact, immediately wash skin with soap and copious amounts of water.

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 Data
Dust Potential
This material, like most materials in powder form, is capable of creating a dust explosion.

Autoignition Temp: N/A

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

Aldrich Chemical - 269352
Page 2Sigma-Aldrich Corporation
www.sigma-aldrich.com

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)**

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

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.

Environmental Precaution(s)

Avoid contaminating water supply. Do not allow material to enter drains or water courses.

Section 7 - Handling and Storage**Handling****User Exposure**

Avoid inhalation. 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). 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.

Hand

Protective gloves.

Eye

Chemical safety goggles.

General Hygiene Measures

Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties**Appearance**

Color	Form
Very faintly grey	Powder

Molecular Weight: N/A

pH N/A

BP/BP Range N/A

MP/MP Range N/A

Aldrich Chemical - 269352

Page 3

Sigma-Aldrich Corporation
www.sigma-aldrich.com

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**

Stable.

Materials to Avoid

Strong oxidizing agents.

Hazardous Decomposition Products**Hazardous Decomposition Products**

Carbon monoxide, Carbon dioxide, Acrolein, Formaldehyde.

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

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

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.

Aldrich Chemical - 269352

Page 4

Sigma-Aldrich Corporation
www.sigma-aldrich.com

Conditions Aggravated by Exposure

Exposure to thermal decomposition products can cause "polymer fume fever", a temporary flu-like condition which usually appears several hours after exposure and passes within 36-48 hours.

RTECS Number: TQ3325000

Chronic Exposure - Carcinogen

Rat - Implant: 33 MG/KG

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application.

Mouse - Implant: 331 MG/KG

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application.

Rat - Implant: 2120 MG/KG

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Blood: Lymphomas including Hodgkin's disease. Tumorigenic: Tumors at site or application.

Rat - Implant: 1476 MG/KG

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or application.

Rat - Implant: 1000 MG/KG

Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Tumorigenic: Tumors at site or 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 non-hazardous for transport.

IATA

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

Section 15 - Regulatory Information**EU Additional Classification**

Safety Statements S: 22
Do not breathe dust.

United States Regulatory Information

SARA Listed: No

Notes: This product is subject to SARA section 313 reporting requirements.

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.

Aldrich Chemical - 269352

Sigma-Aldrich Corporation
www.sigma-aldrich.com

Page 5

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 2006 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

Aldrich Chemical - 269352

Page 6

Sigma-Aldrich Corporation
www.sigma-aldrich.com