



SIGMA-ALDRICH

ALDRICH CHEMICAL COMPANY, INC.
P.O. BOX 355
MILWAUKEE, WISCONSIN 53201, USA

ATTN: SAFETY DIRECTOR
RECEIVING DOCK
SCHOOLCRAFT COLLEGE
18600 HAGGERTY ROAD
LIVONIA MI 48152

EMERGENCY PHONE 1-414-273-3850

DATE 11/18/98
CUST#: 938609
PO#: 87800

M A T E R I A L S A F E T Y D A T A S H E E T

PAGE 1

SECTION 1. - - - - - CHEMICAL IDENTIFICATION - - - - -

CATALOG #: 33035-3
NAME: POLYSTYRENE STANDARD, TYPICAL MW 600,000

SECTION 2. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

CAS #: 9003-53-6

SYNONYMS

3A * A 3-80 * AFCOLENE * AFCOLENE 666 * AFCOLENE S 100 * ATACTIC
POLYSTYRENE * BACTOLATEX * BAKELITE SMD 3500 * BASF III * BDH 29-790 *
BEXTRENE XL 750 * BICOLASTIC A 75 * BICOLENE H * BIO-BEADS S-S 2 *
BP-KLP * BSB-S 40 * BSB-S-E * BUSTREN * BUSTREN K 500 * BUSTREN K 525-
19 * BUSTREN U 825 * BUSTREN U 825E11 * BUSTREN Y 825 * BUSTREN Y
3532 * CADCO 0115 * CARINEX GP * CARINEX HR * CARINEX HRM * CARINEX
SB 59 * CARINEX SB 61 * CARINEX SL 273 * CARINEX TGX/MF * COPAL Z *
COSDEN 550 * COSDEN 945E * DENKA QP3 * DIAREX 43G * DIAREX HF 55 *
DIAREX HF 77 * DIAREX HF 55-247 * DIAREX HS 77 * DIAREX HT 88 *
DIAREX HT 90 * DIAREX HT 190 * DIAREX HT 500 * DIAREX HT 88A * DIAREX
YH 476 * DORVON * DORVON FR 100 * DOW 360 * DOW 456 * DOW 665 * DOW
860 * DOW 1683 * DOW MX 5514 * DOW MX 5516 * DYLARK 250 * DYLENE *
DYLENE 8 * DYLENE 9 * DYLENE 8G * DYLITE F 40 * DYLITE F 40L * 686E *
EDISTIR RB * ESBRITE * ESBRITE 2 * ESBRITE 4 * ESBRITE 4-62 * ESBRITE
8 * ESBRITE G 10 * ESBRITE G-P 2 * ESBRITE 500HM * ESBRITE LBL *
ESCOREZ 7404 * ESTYRENE 4-62 * ESTYRENE G 15 * ESTYRENE G 20 *
ESTYRENE G-P 4 * ESTYRENE H 61 * ESTYRENE 500SH * FC-MY 5450 * FG 834
* FOSTER GRANT 834 * GEDEX * 454H * HF 10 * HF 55 * HF 77 * HH 102 *
HHI 11 * HI-STYROL * HOSTYREN N * HOSTYREN N 4000 * HOSTYREN N 7001 *
HOSTYREN N 4000V * HOSTYREN S * HT 88 * HT 91-1 * HT 88A * HT-F 76 *
IT 40 * K 525 * KB (POLYMER) * KM (POLYMER) * KOPLIN 2 * KR 2537 *
KRASTEN 1.4 * KRASTEN 052 * KRASTEN SB * LACOREN 506 * LACOREN 550 *
LS 061A * LS 1028E * LUSTREX * LUSTREX H 77 * LUSTREX HP 77 * LUSTREX
HH 101 * LUSTREX HT 88 * MX 4500 * MX 5514 * MX 5516 * MX 5517-02 *
168N15 * NAPST * NBS 706 * N 4000V * POLIGOSTYRENE * OWISPOL GF *
PELASPAN 333 * PELASPAN ESP 109S * PICCOLASTIC * PICCOLASTIC A *
PICCOLASTIC A 5 * PICCOLASTIC A 25 * PICCOLASTIC A 50 * PICCOLASTIC A
75 * PICCOLASTIC C 125 * PICCOLASTIC D * PICCOLASTIC D-100 *
PICCOLASTIC D 125 * PICCOLASTIC D 150 * PICCOLASTIC E 75 *
PICCOLASTIC E 100 * PICCOLASTIC E 200 * POLYCO 220NS * POLYFLEX *
POLYSTROL D * POLYSTYRENE * POLYSTYRENE BW * POLYSTYRENE LATEX *
POLYSTYRENE NANOPARTICLES * POLYSTYROL * PRINTEL'S * PRX 1195 * PS 1
(POLYMER) * PS 2 * PS 200 * PS 209 * PS-B * PSB-C * PSB-S * PSB-S 40 *
PSB-S-E * PS 454H * PS 2 (POLYMER) * PS 5 (POLYMER) * PSV-L * PSV-L
1 * PSV-L 2 * PSV-L 1S * PY2763 * R 3 * R 3612 * REXOLITE 1422 *
RHODOLNE * S 173 * SB 475K * SD 188 * SHELL 300 * SMD 3500 * SPS 600 *
SRM 705 * SRM 706 * ST 90 * STERNITE 30 * STERNITE ST 30VL * ST 30UL
* STYRAFOIL * STYRAGEL * STYRENE POLYMERS * STYREX C * STYROCELL PM *
STYROFAN 2D * STYROFLEX * STYROFOAM * STYROLUX * STYRON * STYRON 475 *
STYRON 492 * STYRON 666 * STYRON 678 * STYRON 679 * STYRON 683 *

CONTINUED ON NEXT PAGE

4358

We are Committed to the Success of our Customers through Science, Technology and Service.



SIGMA



Fluka



ALDRICH

Riedel-deHaën



SUPELCO



SIGMA
DIAGNOSTICS

ALDRICH CHEMICAL COMPANY, INC.
P.O. BOX 355
MILWAUKEE, WISCONSIN 53201, USA

CUST#: 938609
PO#: 87800

M A T E R I A L S A F E T Y D A T A S H E E T PAGE 2

CATALOG #: 33035-3
NAME: POLYSTYRENE STANDARD, TYPICAL MW 600,000

STYRON 685 * STYRON 686 * STYRON 690 * STYRON 69021 * STYRON 440A *
STYRON 470A * STYRON 475D * STYRON GP * STYRON 666K27 * STYRON PS 3 *
STYRON T 679 * STYRON 666U * STYRON 666V * STYROPIAN * STYROPIAN FH
105 * STYROPOL HT 500 * STYROPOL IBE * STYROPOL JQ 300 * STYROPOL KA *
STYROPOR * TC 3-30 * TGD 5161 * TMDE 6500 * TOPOREX 500 * TOPOREX
830 * TOPOREX 550-02 * TOPOREX 850-51 * TOPOREX 855-51 * TROLITUL *
TRYCITE 1000 * 825TV * 825TV-PS * 475U * U625 * 666U * UBATOL U 2001 *
UCC 6863 * UP 1 * UP 2 * UP 27 * UPM * UPM703 * UPM508L * VESTOLEN P
5232G * VESTYRON * VESTYRON 512 * VESTYRON 114-12 * VESTYRON MB *
VESTYRON N * VINAMUL N 710 * VINAMUL N 7700 * VINYL BENZENE POLYMER *
VINYL PRODUCTS R 3612 * X 600 *

SECTION 3. - - - - - HAZARDS IDENTIFICATION - - - - -

DATA NOT AVAILABLE

SECTION 4. - - - - - FIRST-AID MEASURES - - - - -

IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS
AMOUNTS OF WATER.
IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF
WATER FOR AT LEAST 15 MINUTES.
IF INHALED, REMOVE TO FRESH AIR.
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.

SECTION 5. - - - - - FIRE FIGHTING MEASURES - - - - -

EXTINGUISHING MEDIA

WATER SPRAY.
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO
PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS

UNDER FIRE CONDITIONS, MATERIAL MAY DECOMPOSE
TO FORM FLAMMABLE AND/OR EXPLOSIVE MIXTURES IN AIR.

SECTION 6. - - - - - ACCIDENTAL RELEASE MEASURES - - - - -

WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY
RUBBER GLOVES.
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 - - - - -

REFER TO SECTION 8.

SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - - - -

CONTINUED ON NEXT PAGE

4359



SIGMA-ALDRICH

ALDRICH CHEMICAL COMPANY, INC.
P.O. BOX 355
MILWAUKEE, WISCONSIN 53201, USA

CUST#: 938609
PO#: 87800

M A T E R I A L S A F E T Y D A T A S H E E T

PAGE 3

CATALOG #: 33035-3
NAME: POLYSTYRENE STANDARD, TYPICAL MW 600,000

CHEMICAL SAFETY GOGGLES.
USE PROTECTIVE CLOTHING, GLOVES AND MASK.
MECHANICAL EXHAUST REQUIRED.
SAFETY SHOWER AND EYE BATH.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
DO NOT BREATHE DUST.
WASH THOROUGHLY AFTER HANDLING.
KEEP TIGHTLY CLOSED.
STORE IN A COOL DRY PLACE.

SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -

APPEARANCE AND ODOR
WHITE FIBERS

SECTION 10. - - - - - STABILITY AND REACTIVITY - - - - -

STABILITY
STABLE.

INCOMPATIBILITIES
STRONG OXIDIZING AGENTS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
CARBON MONOXIDE, CARBON DIOXIDE

HAZARDOUS POLYMERIZATION
WILL NOT OCCUR.

SECTION 11. - - - - - TOXICOLOGICAL INFORMATION - - - - -

ACUTE EFFECTS
MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.
MAY CAUSE EYE IRRITATION.
MAY CAUSE SKIN IRRITATION.
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

RTECS #: WL6475000
STYRENE POLYMER

TARGET ORGAN DATA
TUMORIGENIC (EQUIVOCAL TUMORIGENIC AGENT BY RTECS CRITERIA)
TUMORIGENIC (TUMORS AT SITE OF APPLICATION)
ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR
COMPLETE INFORMATION.

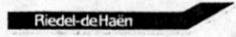
SECTION 12. - - - - - ECOLOGICAL INFORMATION - - - - -

DATA NOT YET AVAILABLE.

CONTINUED ON NEXT PAGE

4360

We are Committed to the Success of our Customers through Science, Technology and Service.



ALDRICH CHEMICAL COMPANY, INC.
P.O. BOX 355
MILWAUKEE, WISCONSIN 53201, USA

CUST#: 938609
PO#: 87800

M A T E R I A L S A F E T Y D A T A S H E E T

PAGE 4

CATALOG #: 33035-3
NAME: POLYSTYRENE STANDARD, TYPICAL MW 600,000

SECTION 13. - - - - - DISPOSAL CONSIDERATIONS - - - - -

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 - - - - -

CONTACT ALDRICH CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. - - - - - REGULATORY INFORMATION - - - - -

EUROPEAN INFORMATION

CAUTION: SUBSTANCE NOT YET FULLY TESTED.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK

IARC CANCER REVIEW:HUMAN NO ADEQUATE DATA IMEMDT 19,231,1979

IARC CANCER REVIEW:ANIMAL INADEQUATE EVIDENCE IMEMDT 19,231,1979

IARC CANCER REVIEW:GROUP 3 IMSUDL 7,56,1987

NOHS 1974: HZD M3416; NIS 15; TNF 1604; NOS 25; TNE 6915

NOHS 1974: HZD M3828; NIS 120; TNF 10731; NOS 101; TNE 147128

NOES 1983: HZD X6970; NIS 101; TNF 11403; NOS 131; TNE 400575; TFE
182417

EPA TSCA SECTION 8(B) CHEMICAL INVENTORY

EPA TSCA SECTION 8(D) UNPUBLISHED HEALTH/SAFETY STUDIES

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JUNE 1998

SECTION 16. - - - - - OTHER INFORMATION - - - - -

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO
BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ALDRICH 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 1998 SIGMA-ALDRICH CO.

LICENSE GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.