



61115-0000

(Solar system kit)

MATERIAL SAFETY DATA SHEET PAGE: 1
DOW CHEMICAL U.S.A. MIDLAND MICHIGAN 48640 EMERGENCY PHONE: 517-636-4400

EFFECTIVE DATE: 04 FEB 82 PRODUCT CODE: 81568

PRODUCT NAME: STYROFOAM (R) DB BRAND PLASTIC FOAM WHITE
BILLETS MSD: 0444

INGREDIENTS (TYPICAL VALUES-NOT SPECIFICATIONS)
POLYSTYRENE FOAM : 100 :

SECTION 1 PHYSICAL DATA

BOILING POINT: NOT APPLICABLE ; SOL. IN WATER: NONE
VAP PRESS: NOT APPLICABLE ; SP. GRAVITY: .027 TO .064
VAP DENSITY (AIR=1): NOT APPLIC. ; % VOLATILE BY VOL: NOT APPLICABLE
APPEARANCE AND ORDER: RIGID CELLULAR FOAM BOARD - NO ODOR.

SECTION 2 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: ---- ; FLAMMABLE LIMITS (STP IN AIR)
METHOD USED: NOT APPLICABLE. ; LFL: NOT APPLIC. UFL: NOT APPLIC.
EXTINGUISHING MEDIA: WATER FOG, CO2, DRY CHEMICAL.
SPECIAL FIRE FIGHTING EQUIPMENT AND HAZARDS: LARGE VOLUME OF WATER
DIRECTLY ON FLAME OR BURNING SURFACE. EMITS BLACK DENSE SMOKE.

SECTION 3 REACTIVITY DATA

STABILITY: ----
INCOMPATIBILITY: HYDROCARBONS, ESTERS, INSECTICIDES, AMINES,
ALDEHYDES.
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE,
CARBON.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION 4 SPILL, LEAK, AND DISPOSAL PROCEDURES

ACTION TO TAKE FOR SPILLS (USE APPROPRIATE SAFETY EQUIPMENT): PICK UP, OR IF
DUST OR IN SMALL PIECES, SWEEP UP AND PLACE IN SUITABLE CONTAINER
FOR DISPOSAL.
DISPOSAL METHOD: BURY IN AN APPROVED LANDFILL, OR BURN IN AN ADEQUATE
INCINERATOR WITH EXCESS OXYGEN, IN ACCORDANCE WITH ALL LOCAL, STATE
AND FEDERAL REGULATIONS.

SECTION 5 HEALTH HAZARD DATA

(CONTINUED ON PAGE 2)
(R) INDICATES A REGISTERED OR TRADEMARK NAME OF THE DOW CHEMICAL COMPANY

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SECTION 5 HEALTH HAZARD DATA (CONTINUED)

INGESTION: PRESENTS NO SIGNIFICANT INGESTION HAZARD. MAY ACT AS AN OBSTRUCTION (AS WOULD ANY BULKY INERT MATERIAL) IF SWALLOWED.
EYE CONTACT: MAY CAUSE MECHANICAL IRRITATION FROM DUST IF FABRICATING.
SKIN CONTACT: PRESENTS NO SIGNIFICANT HAZARD. PROBLEM WILL BE THAT OF MECHANICAL INJURY ONLY.
 SKIN ABSORPTION: NOT LIKELY TO BE ABSORBED.
INHALATION: DURING FABRICATION THE BLOWING AGENT RELEASED (METHYL CHLORIDE) SHOULD BE KEPT BELOW 50 PPM VIA VENTILATION. DOW INDUSTRIAL HYGIENE GUIDE AND ACGIH TLV FOR METHYL CHLORIDE IS 50 PPM. OSHA STANDARD IS 100 PPM.
EFFECTS OF OVEREXPOSURE: ACUTE OVEREXPOSURE TO METHYL CHLORIDE CAUSES DIZZINESS AND NAUSEA. CHRONIC OVEREXPOSURE CAUSES SEVERE ILLNESS.

SECTION 6 FIRST AID--NOTE TO PHYSICIAN

FIRST AID PROCEDURES:

EYES: IRRIGATE WITH FLOWING WATER IMMEDIATELY. REMOVE PARTICLES USING CLEAN LINT-FREE CLOTH. CONSULT MEDICAL PERSONNEL.
SKIN: WASH OFF IN FLOWING WATER OR SHOWER.
INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. CONSULT MEDICAL.
INGESTION: UNKNOWN ROUTE OF CONTACT.

NOTE TO PHYSICIAN:

EYES: POSSIBLE MECHANICAL INJURY. STAIN FOR EVIDENCE OF CORNEAL INJURY.
 SKIN: POSSIBLE MECHANICAL IRRITATION. TREAT AS ANY CONTACT DERMATITIS. NOT LIKELY TO BE ABSORBED IN ACUTELY TOXIC AMOUNTS.
 RESPIRATORY: DUSTS MAY BE IRRITATING. INADEQUATELY AGED FOAM MAY RELEASE TOXIC VAPORS.
 ORAL: NO EFFECT EXPECTED.
 SYSTEMIC: NO EFFECT EXPECTED. TREATMENT BASED ON SOUND JUDGMENT OF PHYSICIAN AND THE INDIVIDUAL REACTIONS OF THE PATIENT.

SECTION 7 SPECIAL HANDLING INFORMATION

VENTILATION: RECOMMEND CONTROL OF METHYL CHLORIDE TO SUGGESTED GUIDE.
RESPIRATORY PROTECTION: IF REQUIRED, USE AN APPROVED DUST RESPIRATOR DURING CUTTING OPERATIONS.
 PROTECTIVE CLOTHING: NONE REQUIRED.
EYE PROTECTION: SAFETY GLASSES WITHOUT SIDE SHIELDS.

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STYROFOAM*

brand plastic foam

technical data

Typical
Mechanical
Properties
At 75°F

ASTM TEST METHOD	D1621 C		D1622 C	D273 B	D274 B	D1621 C	D203 B	D1621 C
	Typical	Min.						
Vertical Compressive Strength psi								
Vertical Tensile Strength psi								
Shear Strength—Machine Direction psi								
Flexural Strength—Machine Direction psi***								
Compressive Modulus psi								
Flexural Modulus psi***								
Shear Modulus—Machine Direction psi								
STYROFOAM IB	40*	25	70	35	60	1000	2000	1100
STYROFOAM FB	35*	25	—	—	—	800	—	—
STYROFOAM BB	25*	18	—	—	40	—	1300	—
STYROFOAM HD 300	120*	100	225	75	125	3800	3500	2200
STYROFOAM HD 1623	140*	125	225	75	125	3800	3600	2200
STYROFOAM SB	40**	25	60	35	100	1200	7500	1200
STYROFOAM SM	40**	25	60	35	100	1200	7500	1200
STYROFOAM TG	40**	25	60	35	100	1200	7500	1200
STYROFOAM RM	45**	25	60	35	125	1200	7500	1200
STYROFOAM DB	24*	15	—	—	—	800	—	—
STYROFOAM HI	45**	35	60	35	100	1200	7500	1200
STYROFOAM SI	45**	25	60	35	125	1200	7500	1200

* Value at yield or 5% deformation whichever occurs first.
 ** Value at 0.1" deformation.
 *** Based on 1" thick specimens.

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SECTION 8 SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION (CONTINUED)
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STYROFOAM BRAND
INSULATION IS COMBUSTIBLE AND MAY CONSTITUTE A FIRE
HAZARD IF IMPROPERLY USED OR INSTALLED. IT SHOULD BE
ADEQUATELY PROTECTED. USE ONLY AS DIRECTED BY THE
SPECIFIC INSTRUCTIONS FOR THIS PRODUCT. STYROFOAM
BRAND INSULATION CONTAINS A FLAME RETARDANT ADDITIVE
TO INHIBIT ACCIDENTAL IGNITION FROM SMALL FIRE SOURCES.
DURING SHIPPING, STORAGE, INSTALLATION AND USE THIS
MATERIAL SHOULD NOT BE EXPOSED TO FLAME OR OTHER
IGNITION SOURCES.

ADDITIONAL INFORMATION: 04 FEB 82 REVISED FROM 24 OCT 80 --
SECTIONS 5, 6 AND 7. (P.C. 81550 PREVIOUSLY ON 0848.)

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