

DOW CHEMICAL

-- TRYMER 4000 RIGID FOAM INSULATION 40089

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MSDS Safety Information
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FSC: 6850
MSDS Date: 08/24/1995
MSDS Num: CJCYH
LIIN: 00D007899
Product ID: TRYMER 4000 RIGID FOAM INSULATION 40089
MFN: 01
Responsible Party
Cage: OBG07
Name: DOW CHEMICAL CO THE
Address: 1801 DOW CTR
City: MIDLAND MI 48674-1801
Info Phone Number: 517-636-4400 / 800-258-2436
Emergency Phone Number: 517-636-4400
Resp. Party Other MSDS No.: 004823
Review Ind: Y
Published: Y

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Contractor Summary
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Cage: OBG07
Name: DOW CHEMICAL CO THE
Address: 1801 DOW CTR
City: MIDLAND MI 48674-1801
Phone: 517-636-4400 / 800-258-2436
Cage: 71983
Name: DOW CHEMICAL U.S.A.
City: MIDLAND MI 48640
Phone: 517-636-4400
Cage: 15175
Name: ELECTRONIC SPACE SYSTEMS CORP DBA ESCO
Address: OLD POWDER MILL RD
City: CONCORD MA 01742
Phone: 978-369-7200 /FAX: 978-369-7641

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Ingredients
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Cas: 1717-00-6
RTECS #: KI0997000
Name: 1,1-DICHLORO-1-FLUOROETHANE
% low Wt: 4.
% high Wt: 7.
Ozone Depleting Chemical: 2

Name: POLYMERIZED POLYURETHANE MODIFIED POLYISOCYANATE RIGID CELLULAR PLASTIC
% low Wt: 93.
% high Wt: 96.

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Health Hazards Data
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Route Of Entry Inds - Inhalation: YES
Skin: NO
Ingestion: NO

Effects of Exposure: EYES: SOLID OR DUST MAY CAUSE IRRITATION OR CORNEAL INJURY

DUE TO MECHANICAL ACTION. SKIN: ESSENTIALLY NON-IRRITATING TO SKIN. MECHANICAL INJURY ONLY. SKIN ABSORPTION UNLIKELY. INGESTED: INGESTION IS UNLIKELY DUE TO PHYSICAL STATE. PHYSICAL INJURY ONLY. MAY CAUSE CHOKING IF SWALLOWED. INHALED- DUST MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT. EXPOSURE TO 1,1-DICHLORO-1-FLUOROETHANE MAY CAUSE ANESTHETIC OR NARCOTIC EFFECTS, CNS EFFECTS, INCREASE SENSITIVITY TO EPINEPHRINE & INCREASE MYOCARDIAL IRRITABILITY.

Explanation Of Carcinogenicity: BENIGN TESTICULAR TUMORS WERE OBSERVED IN RATS

EXPOSED TO HIGH CONCENTRATIONS (>5000 PPM) OF 1,1-DICHLORO-1-FLUOROETHANE FOR 2 YEARS; NO TUMORS OBSERVED AT 1500 PPM. SIGNIFICANCE OF THIS DATA IS CONSIDERED EQUIVOCAL.

Signs And Symptoms Of Overexposure: EYES: SOLID OR DUST MAY CAUSE IRRITATION OR CORNEAL INJURY DUE TO MECHANICAL ACTION. SKIN: ESSENTIALLY NON-IRRITATING TO SKIN. MECHANICAL INJURY ONLY. SKIN ABSORPTION UNLIKELY. INGESTED: INGESTION IS UNLIKELY DUE TO PHYSICAL STATE. PHYSICAL INJURY ONLY. MAY CAUSE CHOKING IF SWALLOWED. INHALED- DUST MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT. EXPOSURE TO 1,1-DICHLORO-1-FLUOROETHANE MAY CAUSE ANESTHETIC OR NARCOTIC EFFECTS, CNS EFFECTS, INCREASE SENSITIVITY TO EPINEPHRINE & INCREASE MYOCARDIAL IRRITABILITY.

First Aid: EYES: FLUSH WITH PLENTY OF WATER; MECHANICAL EFFECTS ONLY. SKIN: WASH OFF IN FLOWING WATER OR SHOWER. INGESTION: NO ADVERSE EFFECTS ANTICIPATED BY THIS ROUTE OF EXPOSURE. INHALATION: REMOVE TO FRESH AIR. IF EFFECTS OCCUR. CONSULT A PHYSICIAN.

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Handling and Disposal
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Spill Release Procedures: PICK UP OR IF DUST OR IN SMALL PIECES, SWEEP UP AND PLACE IN SUITABLE CONTAINER FOR DISPOSAL. USE CYCLONE DUST COLLECTORS ON ALL FABRICATING POWER TOOLS. KEEP WORK AREAS CLEAN. REMOVE SETTLED DUST BY VACUUMING NOT BLOWING.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: DO NOT DUMP TO SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER! ALL DISPOSAL MUST BE IN COMPLIANCE WITH ALL FEDERAL, STATE, PROVINCIAL, LOCAL LAWS & REGULATIONS. FOR UNUSED & UNCONTAMINATED PRODUCT: SEND TO LICENSED/PERMITTED; RECYCLER, RECLAIMER, INCINERATOR, LANDFILL.

Handling And Storage Precautions: NONE SPECIFIED BY MANUFACTURER.

Other Precautions: NONE SPECIFIED BY MANUFACTURER.
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Fire and Explosion Hazard Information
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Extinguishing Media: LARGE: DRENCH WITH WATER SPRAY FROM FIRE HOSE. FOR SMALL FIRES: WATER SPRAY, FOAM, CARBON DIOXIDE, DRY CHEMICAL FROM FIRE EXTINGUISHERS.

Fire Fighting Procedures: WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND PROTECTIVE FIRE FIGHTING CLOTHING (INCLUDE FIRE FIGHTING HELMET, COAT, PANTS, BOOTS, GLOVES).

Unusual Fire/Explosion Hazard: PROBABILITY OF DUST EXPLOSIONS IS LOW. IN COMMON WITH OTHER ORGANIC MATERIALS, THIS PRODUCT CAN PRESENT AN UNREASONABLE FIRE RISK IN CERTAIN MISAPPLICATIONS WHEN EXPOSED TO IGNITION SOURCES IN AIR.
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Control Measures
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Physical/Chemical Properties
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HCC: N1

Appearance and Odor: RIDGID CELLULAR PLASTIC, NO ODOR
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Reactivity Data
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Stability Indicator: YES

Stability Condition To Avoid: OPEN FLAMES AND OTHER IGNITION SOURCES.

Materials To Avoid: NONE KNOWN.

Hazardous Decomposition Products: CARBON DIOXIDE, CARBON MONOXIDE, POSSIBLE
TRACES OF HYDROGEN CYANIDE, HALOGEN ACIDS, & NITROGEN OXIDES UNDER FIRE
CONDITIONS.

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: WILL NOT OCCUR.
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Toxicological Information
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Toxicological Information: 1,1-DICHLORO-1-FLUOROETHANE HAS SHOWN TO BE
NEGATIVE IN SOME IN VITRO MUTAGENICITY TESTS AND POSITIVE IN OTHERS. THE
WEIGHT OF EVIDENCE FROM A BATTERY OF MUTAGENICITY STUDIES SUGGESTS THAT
1,1-DICHLORO-1-FLUOROETHANE HAS A VERY LOW POTENTIAL FOR GENETIC MATERIAL.
NO RELEVANT INFORMATION FOUND ON OTHER COMPONENT(S).S
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Ecological Information
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Ecological: NO BIOCONCENTRATION IS EXPECTED BECAUSE OF THE RELATIVELY HIGH
MOLECULAR WEIGHT (>1000). IN THE TERRESTRIAL ENVIRONMENT, MATERIAL IS
EXPECTED TO REMAIN IN THE SOIL. IN AN AQUATIC ENVIRONMENT, MATERIAL IS
EXPECTED TO FLOAT. THIS WATER INSOLUBLE POLYMERIC SOLID IS EXPECTED TO BE
INERT IN THE ENVIRONMENT. SURFACE PHOTODEGRADATION IS EXPECTED WITH
EXPOSURE TO SUNLIGHT. NO APPRECIABLE BIODEGRADATION IS EXPECTED. NO
EXPECTED TO BE ACUTELY ECOTOXIC.
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MSDS Transport Information
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Transport Information: NONE SPECIFIED BY MANUFACTURER.
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Regulatory Information
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Sara Title III Information: SUBSTANCES SUBJECT TO REPORTING UNDER SECTION 313
OF SARA TITLE: 1,1-DICHLORO-1-FLUOROETHANE CAS 001717-00-6 10%-18%. THIS
PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES"
PROMULGATED UNDER SECTIONS 311 & 312 OF THE SUPERFUND AMENDMENT AND
REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER
APPLICABLE DEFINITIONS TO MEET THE FOLLOWING CATEGORIES: NOT TO HAVE MET
ANY HAZARD CATEGORY.

Federal Regulatory Information: NONE SPECIFIED BY MANUFACTURER.

State Regulatory Information: NONE SPECIFIED BY MANUFACTURER.
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Other Information
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Other Information: THE CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION
SYSTEM (WHIMIS) CLASSIFICATION FOR THIS PRODUCT IS: THIS PRODUCT IS NOT A
"CONTROLLED PRODUCT" UNDER WHIMIS.
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Transportation Information

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Responsible Party Cage: OBG07
Trans ID NO: 138192
Product ID: TRYMER 4000 RIGID FOAM INSULATION 40089
MSDS Prepared Date: 08/24/1995
Review Date: 01/29/1999
MFN: 1
Multiple KIT Number: 0
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Detail DOT Information

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DOT PSN Code: ZZZ
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
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Detail IMO Information

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IMO PSN Code: ZZZ
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION
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Detail IATA Information

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IATA PSN Code: ZZZ
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
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Detail AFI Information

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AFI PSN Code: ZZZ
AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
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HAZCOM Label

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Product ID: TRYMER 4000 RIGID FOAM INSULATION 40089
Cage: OBG07
Company Name: DOW CHEMICAL CO THE
Street: 1801 DOW CTR
City: MIDLAND MI
Zipcode: 48674-1801
Health Emergency Phone: 517-636-4400
Label Required IND: Y
Date Of Label Review: 02/03/1999
Status Code: A
Origination Code: F
Eye Protection IND: YES
Skin Protection IND: NO
Signal Word: CAUTION
Respiratory Protection IND: YES
Health Hazard: Slight
Contact Hazard: None
Fire Hazard: None
Reactivity Hazard: None
Hazard And Precautions: TARGET ORGANS: LUNGS. EYES: SOLID OR DUST MAY CAUSE
IRRITATION OR CORNEAL INJURY DUE TO MECHANICAL ACTION. INGESTED: MAY
CAUSE CHOKING IF SWALLOWED. INHALED- DUST MAY CAUSE IRRITATION TO UPPER
RESPIRATORY TRACT. EXPOSURE TO 1,1-DICHLORO-1 -FLUOROETHANE MAY CAUSE
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WATER; MECHANICAL EFFECTS ONLY. SKIN: WASH OFF IN FLOWING WATER OR SHOWER.
INGESTION: NO ADVERSE EFFECTS ANTICIPATED BY THIS ROUTE OF EXPOSURE.
INHALATION: REMOVE TO FRESH AIR. IF EFFECTS OCCUR. CONSULT A PHYSICIAN.

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