

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

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

THIS MATERIAL SAFETY DATA SHEET IS AVAILABLE IN SPANISH UPON REQUEST.

LOS DATOS DE SEGURIDAD DEL PRODUCTO PUEDEN OBTENERSE EN ESPANOL SI LO REQUIERE.

PRODUCT NAME : KWIK FOAM
 UPC NUMBER : 7079818230, 7079818232, 7079835320, 7079835332,
 7079874200, 7079874202, 7079874204
 PRODUCT USE/CLASS : Pressurized Insulating Foam

MANUFACTURED FOR : DAP INC.
 2400 BOSTON STREET
 BALTIMORE, MD 21224
 24 HOUR EMERGENCY:
 TRANSPORTATION: 1-800-535-5053 (352-323-3500)
 MEDICAL : 1-800-327-3874 (513-558-5111)

PREPARE DATE : 08/22/1996 GENERAL INFORMATION:
 REVISION NO. : 6 DAP INC. : 1-888-DAP-TIPS (1-888-327-8477)
 REVISION DATE: 03/22/2004

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % RANGE
01	Chlorodifluoromethane	75-45-6	10.0-30.0 %
02	4,4'-Diphenylmethane Diisocyanate(MDI)	101-68-8	10.0-30.0 %
03	Higher Oligomers of MDI	9016-87-9	10.0-30.0 %

ITEM	EXPOSURE LIMITS					
	ACGIH		OSHA		COMPANY	
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	SKIN
01	1,000 ppm	N.E.	1,000 ppm	N.E.	N.E.	NO
02	0.005 ppm	N.E.	N.E.	0.02 ppm	N.E.	NO
03	N.E.	N.E.	N.E.	N.E.	N.E.	NO

(See Section 16 for abbreviation legend)

Remaining ingredients are not considered hazardous per the OSHA Hazard Communication Standard.

Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); limits may vary between states.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: WARNING! Contents under pressure. May cause eye, skin, nose and throat irritation. May cause skin and lung sensitization. Harmful if inhaled. Exposure to temperatures above 120 degrees F. may cause can to rupture.

POTENTIAL HEALTH EFFECTS:

EFFECTS OF OVEREXPOSURE - EYE CONTACT: May cause eye irritation. Foam contact can cause physical damage due to adhesive character.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May cause allergic reaction or irritate skin. Effects may be permanent. Prolonged or repeated contact may lead to sensitization and dermatitis(rash). The foam has strong adhesive characteristics and will adhere aggressively to skin and other surfaces. If accidental foam contact occurs, follow the appropriate first aid procedure described in section 4 of this MSDS.

EFFECTS OF OVEREXPOSURE - INHALATION: Vapor harmful if inhaled. Vapor may cause nose and throat irritation with tightness in the chest, coughing or allergic asthma-like sensitivity. May cause asthma and/or sensitization. Effects may be permanent. Extensive over-exposure can lead to respiratory symptoms like bronchitis and pulmonary edema.

Overexposure to fluorocarbon may affect the brain or nervous system causing dizziness, headache, nausea, light-headedness or lethargy. Persons with cardiac arrhythmia may be at increased risk in severe exposure.

EFFECTS OF OVEREXPOSURE - INGESTION: This material may be harmful or fatal if swallowed. If ingested, this product may cause vomiting, diarrhea, and depressed respiration. May cause irritation of mucous membranes in the mouth and digestive tract.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Reports have associated permanent brain and nervous system damage with prolonged and repeated occupational overexposure to solvents.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY CONTACT: INDIVIDUALS WITH LUNG OR BREATHING PROBLEMS SUCH AS ASTHMA OR PRIOR REACTION TO ISOCYANATES MUST NOT BE EXPOSED TO VAPOR OR SPRAY MISTS.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT INHALATION

SECTION 4 - FIRST AID MEASURES

EYE CONTACT: Flush with large quantities of water for at least 15 minutes or until irritation subsides. Contact a physician immediately.

SKIN CONTACT: Remove contaminated clothing. DO NOT use acetone or other solvents to remove product from skin. Wipe excess uncured foam off with a paper towel or rag immediately. Wash remaining uncured foam immediately with warm soapy water. Remaining uncured foam can be removed with petroleum jelly or baby oil. Cured foam may be physically removed by persistent washing with soap and water. Then apply petroleum jelly. If irritation develops, use a mild skin cream and contact a physician immediately.

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SECTION 4 - FIRST AID MEASURES

INHALATION: Remove to fresh air. If breathing is difficult contact a physician immediately. If breathing has stopped, administer artificial respiration. Provide oxygen or artificial respiration by trained personnel.

INGESTION: DO NOT INDUCE VOMITING. Drink 1-2 glasses of water or milk. Do not give anything orally to an unconscious person. Contact a physician or Regional Poison Control Center immediately.

COMMENTS: None.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 800 F.

LOWER EXPLOSIVE LIMIT: N.E.
UPPER EXPLOSIVE LIMIT: N.E.

AUTOIGNITION TEMPERATURE: N.E.

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Containers may explode if exposed to extreme heat. Eliminate sources of ignition: heat, electrical equipment, sparks, and flames. Do not put in contact with oxidizing or caustic materials.

SPECIAL FIREFIGHTING PROCEDURES: Full protective equipment, including self-contained breathing apparatus, is recommended to protect from combustion products. Cool exposed containers with water.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Use absorbent material or scrape up dried material and place into containers. Uncured foam is very sticky, so carefully remove the bulk of the foam by scraping it up and the immediately remove residue with a rag and solvent such as mineral spirits, acetone (finger nail polish remover), paint thinner, etc.. Once the foam has cured it can only be removed physically by scraping and buffing.

SECTION 7 - HANDLING AND STORAGE

HANDLING INFORMATION: KEEP OUT OF REACH OF CHILDREN. Do not get on eyes, skin or clothing. Do not breathe vapors. Use only in a well ventilated area. Make sure nozzle is directed away from yourself prior to discharge. Do not puncture or incinerate (burn) can. Do not place in hot water or near radiators, stoves or other heat sources. Do not keep can in direct sunlight or high temperature areas such as automobiles. If exposed to heat or direct sunlight, container may explode.

STORAGE INFORMATION: Store away from caustics and oxidizers. Keep away from heat, spark, and flame. Keep containers tightly closed when not in use. Keep containers from excessive heat and freezing. Do not store at temperatures above 120 degrees F. Store in a cool dry place.

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SECTION 7 - HANDLING AND STORAGE

This product is combustible and may constitute a fire hazard if improperly used. DO NOT USE NEAR OPEN FLAME. Cured foam may be combustible if exposed to flame or temperatures above 240 °F.

OTHER PRECAUTIONS: Intentional misuse by deliberately concentrating inhaling vapors may be harmful or fatal. Do not take internally.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Prevent build up of vapors by opening all windows and doors or use other means to ensure cross ventilation and fresh air exchange during application and drying. Provide sufficient mechanical ventilation (local or general exhaust) to maintain exposure below PEL and TLV. Vapors are heavier than air and will collect in low areas. Check all low areas (basements, sumps, etc.) for vapors before entering.

RESPIRATORY PROTECTION: If 8 hour exposure limit or value is exceeded for any component, use a NIOSH-approved positive pressure, supplied air respirator. Consult your safety equipment supplier and the OSHA regulation, 29 CFR 1910.134 for respirator requirements. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

If sanded, wear a NIOSH approved dust mask.

EYE PROTECTION: Goggles or safety glasses with side shields.

SKIN PROTECTION: Impervious gloves and long sleeve work clothes.

OTHER PROTECTIVE EQUIPMENT: None.

HYGIENIC PRACTICES: Discard contaminated clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE : 0 F.(Fluorocarbon)
VAPOR DENSITY : Is heavier than air
ODOR : Mild fluorocarbon odor
APPEARANCE : Viscous liquid which foams upon release from container as an off white to yellowish froth.
SOLUBILITY IN H2O : Insoluble
SPECIFIC GRAVITY : 1.20
VAPOR PRESSURE : > 50 psi in container
PHYSICAL STATE : Liquid

(See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Excessive heat and freezing.

INCOMPATIBILITY: Strong oxidizers and caustics. Avoid alcohols, strong bases or amines and metal compounds such as small particle metal catalysts.

HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products, i.e. COx, NOx

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SECTION 10 - STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

No product or component toxicological information is available.

SECTION 12 - ECOLOGICAL INFORMATION

No Information.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE MANAGEMENT/DISPOSAL: Dispose of according to Federal / National, State / Provincial, and local Standards. Use all material before disposal. If unable to use entire contents of can, relieve pressure in container until it equals external pressure. Incineration of this can without first relieving all pressure may result in an explosion and personal injury. Allow foam to fully cure before disposing. Never discard in liquid state. Responsibility for proper waste disposal is with the owner of the waste.

EPA WASTE CODE - If discarded (40 CFR 261): None.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Consumer Commodity

DOT HAZARD CLASS: ORM-D

DOT UN/NA NUMBER: NONE PACKING GROUP: NONE RESP. GUIDE PAGE: 171

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or to non-domestic destinations.

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

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SECTION 15 - REGULATORY INFORMATION

CHEMICAL NAME	CAS NUMBER	WT/WT % RANGE
4,4'-Diphenylmethane Diisocyanate(MDI)	101-68-8	10.0-30.0 %
Chlorodifluoromethane	75-45-6	10.0-30.0 %

TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

CHEMICAL NAME	CAS NUMBER
No information is available.	

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product:

CHEMICAL NAME	CAS NUMBER
Polyol Resin	Proprietary
Flame Retardant	Proprietary

PENNSYLVANIA RIGHT-TO-KNOW:

The following non-hazardous ingredients are present in the product at greater than 3%:

CHEMICAL NAME	CAS NUMBER
Polyol Resin	Proprietary
Flame Retardant	Proprietary

CALIFORNIA PROPOSITION 65:

WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause birth defects or other reproductive harm:

CHEMICAL NAME	CAS NUMBER
No Proposition 65 chemicals are known to exist in this product.	

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 1

PREVIOUS MSDS REVISION DATE: 02/24/2000

VOC less water, less exempt solvent: 0 g/L (calculated)
VOC material : 0 g/L (calculated)

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SECTION 16 - OTHER INFORMATION

LEGEND: ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
N.A. - NOT APPLICABLE
N.E. - NOT ESTABLISHED
PEL - PERMISSIBLE EXPOSURE LIMIT
NTP - NATIONAL TOXICOLOGY PROGRAM
SARA - SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986
STEL - SHORT TERM EXPOSURE LIMIT
TLV - THRESHOLD LIMIT VALUE(8 HR. TIME WEIGHTED AVERAGE OR TWA)
VOC - VOLATILE ORGANIC COMPOUND
NJRTK - NEW JERSEY RIGHT TO KNOW LAW
N.D. - NOT DETERMINED

MSDS# 77005

This data is offered in good faith as typical values and not as a product specification. No warranty either express or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review the recommendations in specific context of the intended use and determine if they are appropriate.

< End OF MSDS >