Handi - Foam ITEM: 2RPJ5 - Straw Foam Sealant 12 Oz Yellow LP NUMBER: U854968742

MSDS: **B3929** ORDER: 0121802473

MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the res	spective product with which it is associated.
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MATERIAL SAFETY DATA SHEET - B3929	REPEATED EXPOSURE MAY LEAD TO SENSITIZATION AND/OR CONTACT DERMATITIS.

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<b>IATERIAL</b>	SAFETY	DATA	SHEET	-	B3929

Associated Grainger Items 2RPJ5, 2RPJ7, 2TE64, 4KK25

ONE-COMPONENT POLYURETHANE FOAM SEALANT/ADHESIVE (134A)

(INCLUDES STRAMFOAM, GUNFOAM, WINDOW AND DOOR, SUB-FLOOR, GENERAL USE AND ROOF TILE. INCLUDES CYLINDERS)

ISSUE DATE: MARCH 2005

LAST REV: MARCH 2008-5

PREPARED BY: T. EBERLING

MATERIAL SAFETY DATA SHEET

- 1. IDENTIFICATION -

CHEMICAL PRODUCT: ONE-COMPONENT POLYURETHANE FOAM SEALANT/ADHESIVE

FOMO PRODUCTS, INC P. O. BOX 1078 NORTON, OHIO 44203 INC.

EMERGENCY OVERVIEW:

PRODUCT INFORMATION: 1-800-321-5585. IN OHIO AND OUTSIDE THE UNITED STATES CALL: (330) 753-4585

TRANSPORTATION EMERGENCY

TRANSFORMATION EMERGENCE: CHEMITER: 1-800-424-9300. ONE-COMPONENT POLYURETHANE FOAM SEALANT/ADHESIVE IS REGISTERED BY THE MANUFACTURER, FOMO PRODUCTS, INC.

INTERNATIONAL TRANSPORTATION EMERGENCY:

CHEMTREC: (703) 527-3887

PRODUCT IS A LIQUID URETHANE PREPOLYMER MIXTURE THAT IS PACKAGED UNDER PRESSURE (NON-FLAMMABLE COMPRESSED GAS).

CONTAINERS SHOULD NOT BE HEATED ABOVE 120 DEG. F  $(49\ \mathrm{DEG},\ \mathrm{C})$  TO AVOID EXCESSIVE PRESSURE BUILD-UP.

- 2. COMPOSITION -

CHEMICAL NAME (COMMON NAMES) CAS NUMBER PERCENTAGE LD50 LC50 ,1,1,2-TETRAFLUOROETHANE 811-97-2 10 TO 30 PERCENT NA NA

(NON-FLAMMABLE COMPRESSED GAS, HFC, FLUOROCARBON) 1

4,4'-DIPHENYLMETHANE DIISOCYANATE (MDI) 5 TO 10 PERCENT NA 101-68-8

HIGHER OLIGOMERS OF MDI 9016-87-9 5 TO 10 PERCENT NA NA (POLYMERIC MDI)

URETHANE PRE-POLYMER BLEND (NON-HAZARDOUS PROPRIETARY BLEND)

NOT AVAILABLE 60 TO 100 PERCENT NA THIS SECTION NΑ

NA

(NOTE: SEE SECTION 8 OF THIS MSDS FOR EXPOSURE GUIDELINES)

## - 3. HAZARDS IDENTIFICATION

PHYSICAL HAZARDS:
SINCE THE CONTAINERS ARE PRESSURIZED, STORAGE TEMPERATURE SHOULD NOT EXCEED
120 DEG. F (49 DEG. C) IN ORDER TO AVOID EXCESSIVE PRESSURE BUILD-UP AND
POSSIBLE CONTAINER RUPTURE. ALSO, THE PRODUCT HAS STRONG ADHESIVE-LIKE
CHARACTERISTICS AND WILL ADHERE AGGRESSIVELY TO SKIN AND CHIER SURFACES.
IF ACCIDENTAL CONTACT OCCURS, FOLLOW THE APPROPRIATE FIRST-AID PROCEDURE
DESCRIBED IN SECTION 4 OF THIS MSDS.

POTENTIAL HEALTH EFFECTS: POTENTIAL HEALTH EFFECTS:
THE PRIMARY ADVERSE HEALTH EFFECTS OF THIS PRODUCT ARE RELATED TO THE
POLYMERIC ISOCYANATE (MDI) COMPONENT, AND, TO A LESSER DEGREE, THE
POLYMERIC ISOCYANATE (MDI) COMPONENT, THEREFORE, ADEQUATE VENTILATION SHOULD BE
PROVIDED TO AVOID EXCEEDING THE EXPOSURE LIMITS OF THESE COMPONENTS
(SEE SECTION 8). THE LIKELIHOOD OF EXCEEDING THESE LIMITS ARE LOW DUE TO
THE LOW CONCENTRATION OF VAPOR PRODUCED DURING NORMAL USE. HOWEVER, IF USED
INDOORS, MECHANICAL VENTILATION OR EXHAUST SHOULD BE PROVIDED DURING USE
AND UNTIL PRODUCT IS CURED.

ENTRY ROUTE:

EFFECTS OF OVEREXPOSURE:

MAY IRRITATE MUCOUS MEMBRANES WITH TIGHTNESS IN CHEST, COUGHING, OR ALLERGIC ASTHMA-LIKE SENSITIVITY. EXTENSIVE OVEREXPOSURE CAN LEAD TO RESPIRATIONY SYMPTOMS LIKE BRONCHITIS AND PULMONARY EDEMA. THESE EFFECTS ARE USUALLY REVERSIBLE.

OVEREXPOSURE TO 1,1,1,2-TETRAFLUOROETHANE MAY CAUSE LIGHTHEADEDNESS, HEADACHES, OR LETHARGY. PERSONS WITH CARDIAC ARRHYTHMIA MAY BE AT INCREASED RISK IN SEVERE EXPOSURE.

MAY BE IRRITATING TO EYES. FOAM CONTACT CAN CAUSE PHYSICAL DAMAGE DUE TO ADHESTVE CHARACTER.

SKIN: MAY CAUSE LOCALIZED IRRITATION, REDDENING OR SWELLING. PROLONGED OR

TNC	ESTION										
3110	DOTTON		~~~		A COR COLD BATTLE	***		NACT TITLE	7377	DICECULAR	TID A CIT
MAY	CAUSE	IRRITATION	OF.	MUCCOUS	MEMBRANES	ΤIA	THE	MUUTH	HIND	DIGESTIAN	ILMCI.

- 4. FIRST AID -

INHALATION: IF BRENTHING DIFFICULTY IS EXPERIENCED, MOVE TO AREA FREE OF EXPOSURE. PROVIDE FRESH AIR. IF NECESSARY, PROVIDE OXYGEN OR ARTIFICIAL RESPIRATION BY TRAINED PERSONNEL AND OBTAIN MEDICAL ATTENTION.

EYE CONTACT: FLUSH WITH CLEAN WATER FOR AT LEAST 15 MINUTES AND OBTAIN MEDICAL ATTENTION.

SKIN CONTACT:
USE A RAG TO REMOVE EXCESS FOAM FROM SKIN AND REMOVE CONTAMINATED CLOTHING.
USE OF A SOLVENT, SUCH AS ACETONE (NAIL POLISH REMOVER) OR MINERAL SPIRITS,
MAY HELP IN REMOVING UNCURED FOAM RESIDUE FROM CLOTHING OR OTHER SURFACES
(AVOID EYE CONTACT). CURED FOAM MAY BE PHYSICALLY REMOVED BY PERSISTENT
WASHING WITH SOAP AND WATER. IF IRRITATION DEVELOPS, USE MILD SKIN CREAM.

IF IRRITATION PERSISTS, OBTAIN MEDICAL ATTENTION.

INGESTION: DRINK 1 TO 3 GLASSES OF WATER AND SEEK IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING ORALLY TO AN UNCONSCIOUS PERSON.

#### - 5. FIRE FIGHTING MEASURES -

HIGH TEMPERATURES WILL RAISE THE PRESSURE IN THE CONTAINERS, WHICH MAY LEAD TO RUPTURING. EXTINGUISHING MEDIA INCLUDE:
DRY CHEMICAL, CARRON DIOXIDE, HALON 1211, CHEMICAL FOAM, OR WATER SPRAY IF USED IN LARGE QUANTITIES (WATER CONTAINATION WILL PRODUCE CARBON DIOXIDE). WEAR SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST TOXIC DECOMPOSITION BY-PRODUCTS, INCLIDING CO, CO2, NO, AND TRACES OF HCN. CURED FOAM IS ORGANIC AND, THEREFORE, WILL BURN IN THE PRESENCE OF SUFFICIENT HEAT, OXYGEN AND AN IGNITION SOURCE. MAIN HAZARDS ASSOCIATED WITH BURNING FOAM ARE SIMILAR TO BURNING OF OTHER ORGANIC MATERIALS (WOOD, PAPER, COTTON, ETC.) AND PRECAUTIONS AGAINST EXPOSURE SHOULD BE TAKEN ACCORDINGLY. AVOID WELDING OR OTHER "HOT WORK" IN THE VICINITY OF EXPOSED CURED FOAM.

# 6. ACCIDENTAL RELEASE MEASURES/DISPOSAL CONSIDERATIONS -

READ ALL PRODUCT INSTRUCTIONS BEFORE USING. PERSONAL PROTECTIVE EQUIPMENT SHOULD INCLUDE (IMPERVIOUS GLOVES, PROTECTIVE EXE WEAR AND SUITABLE WORK CLOTHES). INCURED PRODUCT IS VERY STICKY, SO CAREFULLY REMOVE THE BULK OF THE FOAM BY SCRAPING IT UP AND THEN IMMEDIATELY REMOVE RESIDUE WITH A RAG AND SOLVENT SUCH AS POLVURETHANE CLEANER, MINERAL SPIRITS, ACETONE (NAIL FOLISH REMOVER), PAINT THINNER, ETC. ONCE THE PRODUCT HAS CURED, IT CAN ONLY BE REMOVED PHYSICALLY BY SCRAPINS, BUFFING, ETC. DISPOSE AS PLASTIC WASTE (FOAM PLASTIC) IN ACCORDANCE WITH ALL APPLICABLE GUIDELINES AND REGULATIONS.

BEFORE DISPOSING OF CONTAINERS, RELIEVE CONTAINER OF ANY REMAINING FOAM AND PRESSURE. ALLOW PRODUCT TO FULLY CURE BEFORE DISPOSING, NEVER DISCARD IN A LIQUID STATE.

- 7. HANDLING AND STORAGE -

STORE IN A COOL, DRY PLACE. IDEAL STORAGE TEMPERATURE IS 60 DEG. F TO 80 DEG. F (15.5 DEG. C TO 26.6 DEG. C). STORAGE ABOVE 90 DEG. F (32.2 DEG. C) WILL SHORTEN THE SHELF LIFE. STORAGE BELOW 55 DEG. F (12.7 DEG. C) MAY AFFECT FOAM QUALITY IF CHEMICALS ARE NOT WARMED BEFORE ÙSING

PROTECT CONTAINERS FROM PHYSICAL ABUSE. PROTECT UNUSED PRODUCT FROM

## - 8. EXPOSURE CONTROLS/PERSONAL PROTECTION -

READ ALL PRODUCT INSTRUCTIONS BEFORE USING. PERSONAL PROTECTIVE EQUIPMENT SHOULD INCLIDE IMPERVIOUS GLOVES, PROTECTIVE BYE WEAR AND SUITABLE WORK CLOTHES. ADEQUATE VENTILATION SHOULD ALSO BE EMPLOYED SO THAT VAPOR LEVELS DO NOT EXCEED RECOMMENDED GUIDELINES. IF VAPOR LEVELS ARE EXPECTED TO EXCEED THESE GUIDELINES, USE NIGSH APPROVED, POSITIVE PRESSURE, SUPPLIED AIR RESPIRATOR OR A NEGATIVE PRESSURE HALF MASK WITH ORGANIC VAPOR CARTRIDESS AND DUST/MIST PRE-FILIERS. EXERCISE GOOD PERSONAL HYGIENE, WASH THOROLIGINAL AFFIRE FACH USE THOROUGHLY AFTER EACH USE.

EXPOSURE GUIDELINES

ACGIH

4,4'-DIPHENYLMETHANE DIISOCYANATE (MDI)

PPM CEILING .005 PPM TWA .200 MG/M3 CEILING .051 MG/M3 TWA .020 PPM CEILING

HIGHER OLIGOMERS OF MDI

NONE ESTABLISHED NONE ESTABLISHED

1,1,1,2-TETRAFLUOROETHANE (NON-FLAMMABLE COMPRESSED GAS, HFC FLUOROCARBON 134A)

NONE ESTABLISHED

NONE ESTABLISHED

(NOME OF THE COMPONENTS IN THIS PRODUCT ARE LISTED BY LARC, MIP, OSHA OR ACGIH AS A CARCINOGEN).

### - 9. PHYSICAL AND CHEMICAL PROPERTIES -

PHYSICAL APPEARANCE: VISCOUS LIQUID WHICH FOAMS UPON RELEASE FROM CONTAINER AS AN OFF-WHITE TO YELLOWISH FROTH

(NOTE: APPEARANCE MAY DIFFER WITH THE INTRODUCTION OF A DYE OR COLORANT.)

ODOR: SLIGHT FLUOROCARBON ODOR DURING CURING STAGE

SPECIFIC GRAVITY: APPROXIMATELY 1.2 (H2O = 1)

BOILING POINT:
1,1,1,2-TETRAFLUCROETHANE (NON-FLAMMABLE COMPRESSED GAS, HFC FLUOROCARBON
134A) BOILS AT -15 DEG. F (-26.1 DEG. C). OTHER COMPONENTS BOIL AT TEMPERATURES GREATER THAN 200 DEG. F (93.3 DEG. C). FLASH POINT: PRODUCT FLASH POINT HAS BEEN TESTED AT APPROXIMATELY 800 DEG. F  $(426.6\ \mbox{DEG},\ \mbox{C})$  . VAPOR PRESSURE: CONTENTS UNDER PRESSURE HAVE VAPOR PRESSURE GREATER THAN 50 PSIG / 345 KPA. AFTER RELEASE FROM CONTAINER, VAPOR PRESSURE IS VERY LOW (NOT DETERMINED). SOLUBILITY IN WATER: INSOLUBLE, REACIS SLOWLY WITH WATER DURING CURE; LIBERATING TRACES OF CO2. EXPLOSION DATA: CONTENTS ARE NOT KNOWN TO BE SENSITIVE TO MECHANICAL IMPACT OR STATIC DISCHARGE. - 10. STABILITY AND REACTIVITY THIS PRODUCT IS CONSIDERED STABLE UNDER NORMAL AND ANTICIPATED STORAGE AND HANDLING CONDITIONS. DO NOT STORE ABOVE 120 DEG. F (49 DEG. C). FOR LONGEST SHELF LIFE, AVOID STORAGE ABOVE 90 DEG. F (32.2 DEG. C). AVOID ALCOHOLS, STRONG BASES OR AMINES AND METAL COMPOUNDS (SUCH AS SWALL PARTICLE METAL CATALYSTS). - 11. TRANSPORTATION -SHIPPING INFORMATION: CONTAINERS LESS THAN 1000 CU. CM. (1 LITER) CONTAINERS GREATER THAN 1000 CU. CM. (1 LITER) GROUND: CONSUMER COMMODITY ORM-D (ON SHIPPER (F) ER UN1956 COMPRESSED GAS N.O.S. (FLUOROCARBON) CONSUMER COMMODITY POLYURETHANE FOAM SEALANT/ADHESIVE (ON SHIPPING DOCUMENT) 2.2 (NON-FLAMMABLE GAS LABEL) AIR: UN1950 AEROSOLS, NON-FLAMMABLE 2.2 (NON-FLAMMABLE GAS LABEL) UN1956 COMPRESSED GAS N.O.S. (FLUOROCARBON) 2.2 (NON-FLAMMABLE GAS LABEL) WATER: UN1950 AEROSOLS "LITD QIY" 2 UN1956 COMPRESSED GAS N.O.S. (FLUOROCARBON) 2.2 EXCEPTIONS: N/A NOTE: NOTE: EMERGENCY RESPONSE GUIDE NUMBERS - CONSUMER COMMODITY # 171. FOR AEROSOLS AND COMPRESSED GAS # 126. - 12. REGULATORY TOXIC SUBSTANCES CONTROL ACT (TSCA)/DOMESTIC SUBSTANCES LIST (DSL): ALL INCREDIENTS ARE LISTED ON THE TSCA INVENTORY, AS WELL AS THE CANADIAN DOMESTIC SUBSTANCES LIST. SARA TITLE III: CONTAINS DIPHEMIMETHANE DIISOCYANATE (CAS #101-68-8) SUBJECT TO THE REPORTING REQUIEMENTS OF SARA TITLE III. APPLICABILITY MUST BE DETERMINED BY THE END USER. PROPOSITION 65: BASED ON INFORMATION CURRENILY AVAILABLE, THIS PRODUCT IS NOT KNOWN TO CONTAIN DETECTIBLE AMOUNTS OF ANY CHEMICALS CURRENILY LISTED UNDER CALIFORNIA PROPOSITION 65. V.O.C. CONTENT:
BASED ON THE CERENT EPA DEFINITION OF VOLATILE ORGANIC COMPOUND,
PRODUCT DOES NOT HAVE ANY V.O.C. CONTENT. - 13. OTHER NFPA: HEALTH FIRE REACTIVITY 1 HMIS: HEALTH FLAMMABILITY 1
REACTIVITY 1

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LAST REVISION: MARCH 2008-5

APPROVEID BY: 7. EBERLING

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