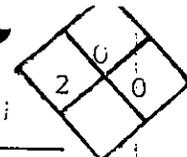


MATERIAL SAFETY DATA SHEET

405 P02



I - PRODUCT IDENTIFICATION

NFPA CODE 704

COMPANY NAME: Calgon Vestal Laboratories

ADDRESS: 5035 Manchester Avenue
St. Louis, MO 63110

Tel No: (314)535-1870
Nights: (314)862-2000
CHEMTREC: (800)424-9390

PRODUCT NAME: Totil-Plus

Product No.: 1122

Synonyms: Detergent Germicide

II - HAZARDOUS INGREDIENTS OF MIXTURES

MATERIAL: (CAS#)	% By Wt.	TLV	PEL
n-Alkyl Dimethyl Benzene Ammonium Chloride (68424-85-1)	5	N/A	N/A
Octyl Decyl Dimethyl Benzyl Ammonium Chloride (32426-11-2)	3.750	N/A	N/A
Dioctyl Dimethyl Ammonium Chloride (5538-94-3)	1.875	N/A	N/A
Didecyl Dimethyl Ammonium Chloride (7173-51-5)	1.875	N/A	N/A

III - PHYSICAL DATA

Vapor Pressure, mm Hg: Unknown	Vapor Density (Air=1)60-90F: Unknown
Evaporation Rate(ether=1): N/A	% Volatile by wt 85
Solubility in H2O: Complete	pH @ Solution N/A
Freezing Point F: N/A	pH as Distributed: undiluted 10.0
Boiling Point F: Unknown	Appearance: Light straw liquid
Specific Gravity H2O=1 @25C: 1.032	Odor: Mild chemical odor

IV - FIRE AND EXPLOSION

Flash Point F: Not flammable

Flammable Limits: N/A

Extinguishing Media: Product is not flammable.

Special Fire Fighting Procedures: Exercise caution when fighting any chemical fire. Respiratory protection is essential.

Unusual Fire and Explosion Hazards: None

V - REACTIVITY DATA

Stability - Conditions to avoid: None known

Incompatibility: Acids

Hazardous Decomposition Products: Ammonia, nitrous oxide, hydrogen chloride.

Conditions Contributing to Hazardous Polymerization: None known

(Cont'd on Page 2)

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Total-Plus
VI - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (Medical Conditions Aggravated/Target Organ Effects,
A. ACUTE-(Primary Route of Exposure) EYE & SKIN:Concentrate corrosive.
Concentrate causes severe eye and skin damage.INGESTION:Harmful or
fatal if swallowed.INHALATION:Mist or vapor may irritate respiratory
tract.
B.SUBCHRONIC,CHRONIC,OTHER: No available information was found.

VII - EMERGENCY AND FIRST AID PROCEDURES

EYE & SKIN:In case of contact,immediately flush eyes or skin with
plenty of water for at least 15 minutes.For eyes,call a physician.
Remove and wash contaminated clothing before reuse.INGESTION:Drink
promptly a large quantity of milk,egg whites,gelatin solution or if
these are not available,drink large quantity of water.Avoid alcohol.
Call a physician immediately.INHALATION:Remove to fresh air.NOTE TO
PHYSICIAN:Probable mucosal damage may contraindicate use of gastric
lavage.Measures against circulatory shock,as well as oxygen and mea-
sures to support breathing manually or mechanically may be needed.If
persistant,convulsions may be controlled by the cautious intravenous
injection of a shortacting barbituate drug.

VIII - SPILL OR LEAK PROCEDURES

Spill Management: Dike area,contain as much spilled material possible..
Remove any remaining material by absorbing on vermiculite or other
suitable material and place in sealed metal container for disposal.

Waste Disposal Methods: PESTICIDE DISPOSAL:Pesticide,spray mixture or
rinsate that cannot be used or chemically reprocessed should be dis-
posed of in landfill approved for pesticides or buried in safe place
away..from water supplies.CONTAINER DISPOSAL:Triple rinse and dispose
in an incinerator or landfill approved for pesticide containers,or
bury in a safe place.

IX - PROTECTION INFORMATION/CONTROL MEASURES

Respiratory: Not required	Eye: Goggles or face shield	Glove: Rubber
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Other Clothing and Equipment: Protective clothing

Ventilation: Normal

X - SPECIAL PRECAUTIONS

Precautions to be taken in Handling and Storing: Do not get in eyes,on
skin or clothing.Wash thoroughly after handling.Keep container
closed.Keep out of reach of children.Avoid contamination of food.

Additional Information: Not for home use.For use and storage by
maintenance personnel only.

Prepared by:R.C.Jente

Revision Date:08/18/87

Seller makes no warranty, expressed or implied, concerning the use of this
product other than indicated on the label. Buyer assumes all risk of use
and/or handling of this material when such use and/or handling is contrary
to label instructions.

While Seller believes that the information contained herein is accurate, such
information is offered solely for its customers' consideration and verification
under their specific use conditions. This information is not to be deemed a
warranty or representation of any kind for which Seller assumes legal responsi-
bility.

LIST
Rec 8/86

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

DATE OF PREP 12/20/82

Section I

MANUFACTURER'S NAME CONVENIENCE PRODUCTS, INC.

STREET ADDRESS 4205 Forest Park Boulevard CITY, STATE, AND ZIP CODE St. Louis, MO 63108

EMERGENCY TELEPHONE NO. 314-535-6226

PRODUCT CLASS Latex Caulk

MANUFACTURER'S CODE IDENTIFICATION PX-8341-A

TRADE NAME Touch 'n Caulk® ; Tub 'n Tile

Section II - HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	TLV		LEL	VAPOR PRESSURE
		PPM	mg/m³		
Aqueous Acrylic Emulsion	30-60%	N.E.		N.A.	
Petroleum Solvent	1-10%	100	-	0.9%	10 mm Hg @ 20°C

Section III - PHYSICAL DATA

BOILING RANGE 212°F

VAPOR DENSITY HEAVIER. LIGHTER THAN AIR

EVAPORATION RATE FASTER SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME

WEIGHT PER GALLON

12.4 lbs/gal

Section IV - FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY Palstic Liquid, n.o.s.

FLASH POINT N.A.

LEL N.A.

EXTINGUISHING MEDIA Dry chemical, carbon dioxide

UNUSUAL FIRE AND EXPLOSION HAZARDS

Liquid caulk will not burn. The dried film will support combustion.

SPECIAL FIRE FIGHTING PROCEDURES

Const - office - Alcohol

Section V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE N.A.

EFFECTS OF OVEREXPOSURE

Eye contact may cause irritation. Prolonged or repeated skin contact may cause irritation. Overexposure to vapors in an enclosed area can cause headaches.

EMERGENCY AND FIRST AID PROCEDURES

Flush eyes with large amounts of water for at least 15 minutes and consult a physician. Wash skin with soap and water. If swallowed, give 2 glasses of water and induce vomiting.

Section VI - REACTIVITY DATA

STABILITY UNSTABLE STABLE

CONDITIONS TO AVOID

INCOMPATIBILITY (Materials to avoid)

HAZARDOUS DECOMPOSITION PRODUCTS

CO, CO₂, hydrogen cyanide

HAZARDOUS POLYMERIZATION MAY OCCUR WILL NOT OCCUR

CONDITIONS TO AVOID

Section VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Contain the spill and scoop into containers for disposal.

WASTE DISPOSAL METHOD

Disposal of according to federal, state and local regulations.

Section VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

None normally needed.

VENTILATION

Good room ventilation. In an enclosed area, use mechanical or local exhaust to prevent an accumulation of vapors.

PROTECTIVE GLOVES Rubber gloves.

EYE PROTECTION Safety glasses.

OTHER PROTECTIVE EQUIPMENT

Section IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

OTHER PRECAUTIONS

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Convenience Products, Inc. makes no warranty with respect thereto and disclaims any liability from reliance thereon.

MATERIAL SAFETY DATA SHEET

Rec 8/86

SECTION I

SAFETY DATA SHEET 1/15/86

PRODUCT NAME OR NUMBER TOUCH 'N FOAM		EMERGENCY TELEPHONE NO. 314-535-6226
MANUFACTURER'S NAME CONVENIENCE PRODUCTS, INC.		MANUFACTURER'S D-U-N-S NO. 09863069
ADDRESS (Number, Street, City, State and Zip Code) 4205 Forest Park Blvd., St. Louis, MO 63108		
HAZARDOUS MATERIALS DESCRIPTION AND PROPER SHIPPING NAME(49 CFR 172.101) Polyurethane Foam		HAZARD CLASS (49 CFR 172.101) Class 55
CHEMICAL FAMILY Aromatic Polyurethane Isocyanate Prepolymer	FORMULA N/A	

SECTION II — INGREDIENTS (list all ingredients)

(HAZARDOUS AND NON HAZARDOUS INGREDIENTS)	CAS REGISTRY NO.	wt. %
Diphenylmethane Diisocyanate (MDI)	26447-40-5	15-20
Chlorinated Phosphate Ester	N/A	10-20
Dichlorodifluoromethane	75-71-8	30-40
Dimethylether	115-10-6	1-10

SECTION III — PHYSICAL DATA

BOILING POINT (X °F) (°C)	-17.1	SPECIFIC GRAVITY (H ₂ O=1) at 25°C	1.11	
VAPOR PRESSURE (mm Hg) <input checked="" type="checkbox"/> at 25°C (psi) <input type="checkbox"/>	4000	PERCENT VOLATILE BY VOLUME (%)	40	
VAPOR DENSITY (AIR=1)	3.9	EVAPORATION RATE (=1)	N/A	
SOLUBILITY IN WATER	Reacts	pH= Neutral		
APPEARANCE AND ODOR Gel under pressure/Faint ether-like odor	IS MATERIAL:		<input checked="" type="checkbox"/> LIQUID	<input type="checkbox"/> SOLID
		GAS		PASTE POWDER

SECTION IV-FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (method used) { °F } Not Established	FLAMMABLE LIMITS	LEL N/A	UEL N/A
EXTINGUISHING MEDIA Dry chemical, CO ₂ , High expansion chemical foam, water spray			
SPECIAL FIRE FIGHTING PROCEDURES Fire fighters should wear full self-contained breathing apparatus and full protective clothing.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Avoid storage temperatures above 120°F to prevent can explosions. Avoid water contamination in closed containers.			

SECTION V-HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE May cause respiratory discomfort and allergic reactions. Symptoms asthma-like in nature.	THRESHOLD LIMIT VALUE <input checked="" type="checkbox"/> 0.02 ppm PERMISSIBLE EXPOSURE LIMIT <input type="checkbox"/>
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EMERGENCY AND FIRST AID PROCEDURES

Const - Dec - office

EMERGENCY AND FIRST AID PROCEDURES

Eye Contact - Flush with clean, luke-warm water (low pressure) for at least 15 minutes, occasionally lifting eyelids, and obtain medical attention.

Skin Contact - Remove contaminated clothing. Wash affected area thoroughly with soap and water. Apply petroleum jelly to affected area for 2-3 days after incident. Petroleum jelly helps remove reacted product from skin. Wash contaminated clothing thoroughly before reuse.

Inhalation - Move to an area free from risk of further exposure. If necessary, obtain medical attention. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Treatment is essentially symptomatic.

Ingestion - Do not induce vomiting. Give 250 ml (8 oz./1 cup) of milk or water to drink. Do not give anything by mouth to an unconscious person. Consult a physician.

SECTION VI-REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID	Do not expose to temperatures greater than 120°F.
	STABLE	X		
INCOMPATIBILITY (materials to avoid)		Water, amines, strong bases, alcohol, alkali or powdered metals		
HAZARDOUS DECOMPOSITION PRODUCTS.		By high heat and fire, CO ₂ , oxides of nitrogen and possibly traces of HCN.		
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID	Contamination by moisture which reacts
	WILL NOT OCCUR	X		with isocyanates.

SECTION VII-SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	If can is ruptured, emitted material will be foam. Allow foaming process to complete; then dispose according to Local, State and Federal regulations.
WASTE DISPOSAL METHOD	Dispose of cured foam per Local, State and Federal regulations.

SECTION VIII-SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)			
VENTILATION	LOCAL EXHAUST (Specify Rate) Maintain rate to keep below TLV	SPECIAL	
	MECHANICAL (General) (Specify Rate)	OTHER	
PROTECTIVE GLOVES	Rubber gloves	EYE PROTECTION	Safety glasses
OTHER PROTECTIVE EQUIPMENT See Section IV			

SECTION IX-SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Always store upright. Storage temperatures: Min. 0°F, Max. 100°F. Do not store containers in direct sunlight.
OTHER PRECAUTIONS	Avoid moisture contamination and temperatures above 120°F.

MATERIAL SAFETY DATA SHEET

Date of Issue
March 1, 1986

IDENTIFICATION

Product Name: **TRAPPER® Glue**
Product Type: Pressure Sensitive Hot Melt Adhesive

HAZARDOUS INGREDIENTS

None

PHYSICAL DATA

Appearance and Odor: Transparent light yellow - banana odor
Solubility in Water: Insoluble, soluble in mineral spirits
pH: 7.2 Melting Point: >200°C Bulk Density: 9.2 lbs/gal Cas No.: None

FIRE AND EXPLOSION DATA

Special Fire Hazards: None

Fire Fighting Methods: Water, foam or inert gas.

REACTIVITY DATA

Stability: Stable

Conditions to Avoid: None

SPILL OR LEAK PROCEDURES

Cleanup: General clean-up
Waste Disposal: Remove glue by applying mineral spirits

HEALTH HAZARD DATA

SIGNAL WORD: None

Effects of Overexposure:

Skin and Eyes: Non-irritating

If Swallowed: None

If Inhaled: None

Other Data:

FIRST AID

Eyes: Flush with water

Skin: Remove with mineral spirits followed by washing with soap and water.

If Swallowed: Induce vomiting by touching back of throat. Avoid use of all oils.

If Inhaled: None

SPECIAL PROTECTION INFORMATION

None

ADDITIONAL INFORMATION/PRECAUTIONS

DOT Classification: Class 60 DOT Hazard Classification: Non-hazardous



BELL LABORATORIES, INC. • 3000 Kintman Blvd. • Madison, WI 53704 • Phone (608) 241-0202

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list
Rec 8/86

MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER'S NAME Richardson-Vick's Inc. Home Care Products Division		EMERGENCY TELEPHONE NO. (901) 685-7555 or (601) 895-5594
ADDRESS (Number, Street, City, State and ZIP Code) 825 Crossover Lane, Suite 240 Building C, Memphis, TN 38117		
CHEMICAL NAME AND SYNONYMS Lubricant Mixture	TRADE NAME AND SYNONYMS Tri-Flow	
CHEMICAL FAMILY: Mixture of Petroleum Distillates, Chlorinated Solvents & Additives	FORMULA Proprietary Mixture	

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS		% BY WT.	TLV (Units)
1,1,1-Trichloroethane	71-55-6	25	1900 mg/m3
n-amyl Acetate	628-63-7	3	525 mg/m3
Mixture of Zinc Salt of Dialkylphosphorodithioic Acid	Confidential	1	None established
When Tri-Flow is packaged as an aerosol the following propellents are used to pressurize the container:			
Propane	74-98-6	10	
Isobutane	75-28-5	10	

SECTION III - PHYSICAL DATA

BOILING POINT (°F)	Initial 190°F	SPECIFIC GRAVITY (H ₂ O = 1)	1.0
VAPOR PRESSURE (mm Hg.)	@20°C approx. 100	PERCENT VOLATILE BY VOLUME (%)	35
VAPOR DENSITY (Air = 1)	Greater than 1	EVAPORATION RATE (Ethyl Ether = 1)	2.6
SOLUBILITY IN WATER	Negligible		
APPEARANCE AND ODOR:	Amber, opaque, liquid; mild, pleasant odor. Two-phases - liquid + solid (Teflon particles settle out — must be agitated before use.)		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used): 154°F (Seta Flash Closed Cup)	FLAMMABLE LIMITS	Lel	Uel
		N/A	N/A
EXTINGUISHING MEDIA Dry Chemical or CO ₂			
SPECIAL FIRE FIGHTING PROCEDURES: None other than those procedures associated with self-pressurized containers if Tri-Flow is packaged as an aerosol.			
UNUSUAL FIRE AND EXPLOSION HAZARDS: None			

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE:	Not established Oil Mist = 5mg/m3
EFFECTS OF OVEREXPOSURE:	Anesthetic or narcotic effects may occur due to 1,1,1-Trichloroethane. Oral toxicity LD 50 - 22.5 ml/kg. Ocular and dermal toxicity - considered to be non-irritant. Test reports available upon request.
EMERGENCY AND FIRST AID PROCEDURES:	For skin contact wash with soap and water. For eye contact flush eyes for 5 minutes with water and contact physician. Contains petroleum distillates. If swallowed do not induce vomiting. Call physician immediately. Tri-Flow is listed with Poison Control Centers through "Poisondex". Call 303/629-1123 in emergency.

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid): Strong oxidizers			
HAZARDOUS DECOMPOSITION PRODUCTS: When Tri-Flow is burned HCl, Cl ₂ , CO ₂ , and phosgene may be produced.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:	Absorb with common materials used to clean up oil; then sweep up residue.
WASTE DISPOSAL METHOD: Dispose of as any other combustible lubricant which has been cleaned up with an absorptive material in accordance with effective environmental regulations.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type): None required while working in a well ventilated area. Care should be taken to avoid breathing of oil mist.			
VENTILATION	LOCAL EXHAUST Normal, good ventilation	SPECIAL	N/A
	MECHANICAL (General) Standard	OTHER	N/A
PROTECTIVE GLOVES:	N/A	EYE PROTECTION:	N/A
OTHER PROTECTIVE EQUIPMENT: None			

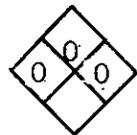
SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:	Store in cool place. Keep away from sparks and flames. Tri-Flow is a combustible liquid. KEEP OUT OF REACH OF CHILDREN.
OTHER PRECAUTIONS:	Aerosol containers only: Extremely Flammable - Contents under pressure - Do not use near heat, sparks or flames. Do not puncture, incinerate or store above 120°F.



PURITAN/CHURCHILL

Chemical Company / ATLANTA, GEORGIA 30377
GALESBURG, ILLINOIS 61401
A DIVISION OF THE DEXTER CORPORATION

**NATIONAL FIRE PROTECTION
ASSOCIATION (NFPA) RATING**



SEE SECTION V

MATERIAL SAFETY DATA SHEET

SECTION I

CHEMICAL NAME AND SYNONYMS		TRADE NAME AND SYNONYMS Trophy (Ready-To-Use)	
CHEMICAL FAMILY Cleaner	FORMULA Mixture		

SECTION II — HAZARDOUS INGREDIENTS

MATERIAL	CAS #	%	TLV (units)
Mineral Seal Oil		21.25	500 ppm

SECTION III — PHYSICAL DATA

BOILING POINT (°F)	212°F	SPECIFIC GRAVITY (H ₂ O = 1)	0.94
VAPOR PRESSURE (mmHg.)	NA	PERCENT VOLATILE BY VOLUME (%)	NA
VAPOR DENSITY (AIR = 1)	NA	EVAPORATION RATE (_____ = 1)	NA
SOLUBILITY IN WATER	Dispersible	pH	7.0

APPEARANCE AND ODOR Milk white emulsion. Mild lemon Odor

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used) Non-flammable	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA Water, carbon dioxide, dry chemicals, foam.			
SPECIAL FIRE FIGHTING PROCEDURES None			
UNUSUAL FIRE AND EXPLOSION HAZARDS None			

SECTION V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	Mineral seal oil 500 ppm
EFFECTS OF OVEREXPOSURE Eyes: Can cause irritation, redness. Skin: Prolonged contact can cause moderate defatting and irritation.	
EMERGENCY AND FIRST AID PROCEDURES Eyes: Flush with large amounts of water. Get medical attention. Skin: Wash with soap and water. Ingestion: If swallowed, do not induce vomiting. Get medical attention.	

**FOR MEDICAL EMERGENCY CALL PURITAN/CHURCHILL CHEMICAL CO. (404) 875-7331 OR
POISON CONTROL CENTER, ATLANTA (404) 588-4400**



SECTION VI — REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	XX	

INCOMPATIBILITY (Materials to avoid)
 Strong oxidizing agent

HAZARDOUS DECOMPOSITION PRODUCTS
 None

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	XX	

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
 Mop up or flush with water.

WASTE DISPOSAL METHOD
 Dispose of in accordance with local, state and federal regulations.

SECTION VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)
 None required

VENTILATION	LOCAL EXHAUST Not necessary	SPECIAL
	MECHANICAL (General) Not necessary	OTHER

PROTECTIVE GLOVES: None required
 EYE PROTECTION: Safety glasses

OTHER PROTECTIVE EQUIPMENT
 None

SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
 Do not take internally. Keep from freezing. Keep container closed.

OTHER PRECAUTIONS
 KEEP OUT OF REACH OF CHILDREN!

**FOR MEDICAL EMERGENCY CALL PURITAN/CHURCHILL CHEMICAL CO. (404) 875-7331 OR
 POISON CONTROL CENTER, ATLANTA (404) 588-4400**

All statements, information and data given are believed to be accurate and reliable as of the date hereof, but are presented without guaranty, warranty or responsibility of any kind, expressed or implied on our part. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other additional considerations. Information regarding the proper course of treatment in the event of an accident or misuse of this product is properly the domain of the attending physician.



MATERIAL INFORMATION SHEET*

List

REC'D JUN 9 1985

Armstrong World Industries, Inc.
Human Resources Department
Liberty & Charlotte Streets, P. O. Box 3001
Lancaster, PA 17604

Telephone (717) 396-2729 or 396-2935

Issued By: D. E. Boudier
Senior Safety & Health Specialist

Date: 10/16/85

NFPA 704:

Health: 0

Flammability: 1

Reactivity: 0

(Ratings use five
divisions from 0 to 4:
0 = no special hazard;
4 = severe hazard.)

Division: Industry Products

I. Product Information

A. Product Name: Tubolit Pipe Insulation - Pipe

B. Description and Ingredient Information: This product is an expanded, closed-cell polyethylene compound. The product formulation does not contain asbestos.

II. Miscellaneous Information

This product is classified as an "article" according to Title 29 of the Code of Federal Regulations, OSHA Part 1910.1200(c). It is formed to a specific shape or design during manufacture, has end use functions dependent upon its shape or design, and does not release any hazardous chemical under normal conditions of use.

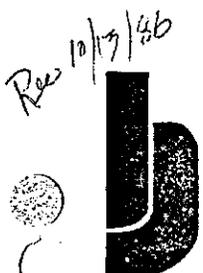
*This Material Information Sheet is provided in lieu of a Material Safety Data Sheet. An MSDS is required only for chemicals or products that are hazardous as defined by the OSHA Standard 1910.1200. Please refer to the product's label for specific instructions and cautions before using the product.

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MATERIAL SAFETY DATA SHEET

howard johnson's enterprises inc • railroad avenue • box 828
viroqua, wisconsin 54665 • 608 637-8261

DATA SHEET NO. *A-01-c*
DIVISION *L&G*
ISSUE DATE *3/01/85*
ISSUED BY *HRL*
SUPERSEDES
ISSUE OF

CHEMTREC CHEMICAL TRANSPORTATION EMERGENCY TELEPHONE NO: 800-424-9300; DISTRICT OF COLUMBIA: 202-483-7818		NON-TRANSPORTATION EMERGENCY NO.: (POISON CONTROL CENTER) <i>WI 608-267-7174 KS 913-588-6633</i>	
PRODUCT NAME <i>TURF PRO BALAN 2.5% GRANULES</i>		PRODUCT CODE NUMBER <i>EPA REG. NO. 32802-7</i>	
CHEMICAL FAMILY <i>Toluidine Herbicides</i>	CHEMICAL NAME & SYNONYMS <i>*N-butyl-N-ethyl-alpha, alpha, alpha, trifluro-2,6-dinitro-para-toluidine (BENEFIN)</i>		
CHEMICAL FORMULA <i>C₁₃H₁₆F₃N₃O₄</i>	TRADE NAME & SYNONYMS <i>ALL SEASON BALAN 2.5% GRANULES, OTHER PRIVATE LABELS</i>		

II HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS OR GASES	%	CURRENT TLV (UNITS)
<i>*TECHNICAL BENEFIN</i>	<i>2.5</i>	<i>N/E</i>
<i>Inert Carrier: limestone</i>	<i>97.5</i>	<i>N/E</i>

III PHYSICAL DATA

APPEARANCE (SOLID, LIQUID, GAS) <i>Solid (Granules)</i>	MOLECULAR WEIGHT <i>N/E (Tech. 335.29)</i>	MELT POINT <i>N/E</i>	SPECIFIC GRAVITY <i>0.8185</i>
VAPOR DENSITY (AR-1) <i>A</i>	COLOR <i>Yellow</i>	BULK DENSITY <i>76#/Cu. Ft.</i>	BOILING POINT <i>N/A</i>
VAPOR PRESSURE <i>A</i>	SOLUBILITY <i>N/A (Insoluble)</i>	ODOR <i>Slightly aromatic</i>	% VOLATILE BY VOLUME <i>N/A</i>

IV FIRE & EXPLOSION DATA

FLASH POINT *F (METHOD USED) <i>N/A</i>	FLAMMABLE LIMIT <i>N/A</i>	EXTINGUISHING MEDIA <i>CO₂; Water fog or foam; Dry Chemical</i>
SPECIAL FIRE FIGHTING PROCEDURES <i>This product is not likely to burn unless ignited by another adjacent intensely heated source (1382°F). Wear a self contained breathing apparatus until smoke is under control. Evacuate persons downwind.</i>		
UNUSUAL FIRE OR EXPLOSION HAZARDS <i>This product does not contain explosive ingredients.</i>		

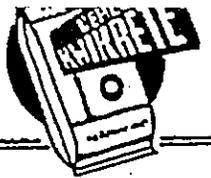
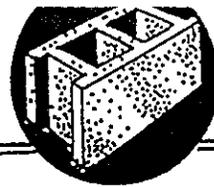
V TOXICITY DATA

LD50, ORAL (INGESTION) <i>> 1500 mg/kg (10,000 mg/kg)</i>	LD50, DERMAL (SKIN CONTACT) <i>> 2000 mg/kg (10,000 mg/kg)</i>	INHALATION <i>> 2 mg/l</i>
FISH, LC50, LETHAL CONCENTRATION) <i>N/A</i>	TLV (UNITS) (THRESHOLD LIMIT VALUE) <i>N/E</i>	SKIN IRRITATION <i>Insignificant</i>
EFFECTS TO EYE <i>Dustless product Not likely to get in eyes</i>	EFFECTS TO LUNG <i>N/E</i>	OTHER <i>None</i>

EMERGENCY AND FIRST AID PROCEDURES, EFFECTS OF OVER EXPOSURE *IF SWALLOWED: Call a physician or Poison control Center immediately. Induce vomiting by giving victim 1 or 2 glasses of water and touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person. IF IN EYES: Flush eyes with plenty of water. Get medical attention. IF ON SKIN: Remove contaminated clothing and wash affected area with soap and water. Overexposure: Headache, nausea, aromatic solvent intoxication (lightheadedness).*

Rec 10/13/64
LISA

DEMCO INC.



BOX 65157 • EIGHTH and RAILROAD STREETS
WEST DES MOINES, IOWA 50265-0157. PHONE 515-223-6655

MATERIAL SAFETY DATA SHEET

Section I

1. DEMCO, INC.
P. O. Box 65157
Eighth & Railroad
West Des Moines, IA 50265
2. Emergency telephone no. - (515) 223-6655
3. Chemical name and synonyms - portland cement (CAS #65997-15-1)
4. Trade name and synonyms - Type I
5. Chemical family - Calcium salts
6. Formulae - $3\text{CaO} \cdot \text{SiO}_2$ (CAS #12168-85-3)
 $2\text{CaO} \cdot \text{SiO}_2$ (CAS #10034-77-2)
 $3\text{CaO} \cdot \text{Al}_2\text{O}_3$ (CAS #12042-78-3)
 $4\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{Fe}_2\text{O}_3$ (CAS #12068-35-8)
 $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ (CAS #13397-24-5)
plus traces of CaO, MgO, K_2SO_4 , and Na_2SO_4

Section II - Hazardous Ingredients

7. N. A.

Section III - Physical Data

8. Boiling point - N. A.
9. Vapor pressure - N. A.
10. Vapor density - N. A.
11. Solubility in water - Slight (0.1 - 1%)
12. Specific gravity - 3.15
13. Percentage volatile by volume - N. A.
14. Evaporation rate - N. A.
15. Appearance and odor - Gray (or white) powder; odorless.

Section IV - Fire and Explosion Hazard Data

16. Flash point - N. A.
17. Flammable or explosive limits - N. A.
18. Extinguishing media - N. A.
19. Special firefighting procedures - N. A.
20. Unusual fire and explosion hazards - None.



Section V - Health Hazard Data

21. Threshold Limit Value - 5 mg m⁻³ (respirable dust)
10 mg m⁻³ (total dust)
30 million particles per cubic foot
22. Effects of overexposure
- Acute - Wet cement, especially as an ingredient in plastic (unhardened) concrete, can dry the skin and cause alkali burns. Cement dust can irritate the eyes and upper respiratory system.
- Chronic - Cement dust can cause inflammation of the lining tissue of the interior of the nose and inflammation of the cornea. Hypersensitive individuals may develop an allergic dermatitis. (Cement may contain traces of hexavalent chromium.)
23. Emergency and first-aid procedures- Irrigate eyes with water. Wash affected areas of the body with soap and water.

Section VI - Reactivity Data

24. Stability - Product is stable. Although no hazardous reaction will occur, portland cement should be kept dry until used.
25. Incompatibility - None
26. Hazardous decomposition products - None
27. Hazardous polymerization - Will not occur.

Section VII - Spill Procedures

28. Steps to be taken in case material is spilled - Use dry cleanup methods that do not disperse the dust into the air. Avoid breathing the dust.
29. Waste disposal method - Material can be disposed of as common waste.

Section VIII - Special Protection Information

30. Respiratory protection - In dusty environments, the use of a NIOSH approved respirator is recommended.
31. Ventilation - Local exhaust can be used, if necessary, to control airborne dust levels.
32. Eye protection - In dusty environments, the use of tight-fitting goggles is recommended.
33. Skin protection - Use barrier creams, gloves, boots and clothing to protect the skin from prolonged contact with wet cement, especially in plastic concrete. Immediately after working with cement, workers should shower with soap and water. Precautions must be observed because cement burns occur with little warning -- little heat is sensed.

Section IX - Special Precautions

34. Precautions to be taken in handling and storing - None.
35. Other precautions - None.