

SAFETY DATA SHEET

PRODUCT CODE: 8255

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CM 8255 PART A
PRODUCT CODES: 8255 A

MANUFACTURER: QuestMark Flooring, Div. Of Centimark Corporation
STREET ADDRESS: 12 Grandview Circle
CITY, STATE, ZIP: Canonsburg, PA 15317

INFORMATION PHONE: 724-743-7777
EMERGENCY PHONE: Chemtrec 800-424-9300

PREPARED BY: Thomas McElwaine

DATE REVISED: 7/20/2014

Chemical Name or Class: Epoxy novolac mixture

SECTION 2: HAZARDS IDENTIFICATION

Hazard Overview

Acute oral toxicity category 4, Acute dermal toxicity category 4, Skin corrosion category 2, skin sensitizer category 1B, Serious eye irritation category 2A, Acute toxicity inhalation category 4, Carcinogenicity category 1, Chronic hazards to aquatic environment category 2

GHS Label Elements and Precautionary Statements:

Label Elements: Health hazard, Exclamation Mark, Aquatic Toxicity

Hazard Statements:

Warning: Harmful if swallowed
Warning: Harmful in contact with skin
Warning: Causes skin irritation
Warning: May cause an allergic skin reaction
Warning: Causes serious eye irritation
Warning: Harmful if inhaled
Danger: May cause cancer
Toxic to aquatic life with long lasting effects

Risk Phrases:

R20 Harmful by inhalation
R21/22 Harmful in contact with skin and if swallowed
R36/37/38 Irritating to eyes, respiratory system and skin
R42/43 May cause sensitization by inhalation and skin contact
R45 May cause cancer
R52 Harmful to aquatic organisms
R66 Repeated exposure may cause skin dryness or cracking

Precautionary statements:

P102 Keep out of reach of children.
P103 Read label before use
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P233 Keep container tightly closed.
P234 Keep only in original container.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P262 Do not get in eyes, on skin, or on clothing.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P284 Wear respiratory protection.

HMIS HAZARD CLASSIFICATION

HEALTH: 2 **FLAMMABILITY:** 1 **REACTIVITY:** 0 **PERSONAL PROTECTIVE EQUIPMENT:** G

POTENTIAL HEALTH EFFECTS

EYES:

MAY CAUSE IRRITATION BUT NO CORNEAL INJURY IS LIKELY.

SKIN:

MAY CAUSE IRRITATION OR ALLERGIC SKIN RESPONSE.

INGESTION:

THIS MATERIAL HAS A PROBABLE LOW ACUTE ORAL TOXICITY.

INHALATION:

NO GUIDE FOR CONTROL KNOWN, HOWEVER, EXPOSURE TO HEATED VAPORS CAN CAUSE IRRITATION TO THE NOSE, THROAT OR MUCOUS MEMBRANES..

HEALTH HAZARDS (ACUTE AND CHRONIC):

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EPOXY RESINS CAN CAUSE SENSITIZATION BY EXPOSURE THROUGH CONTACT OR HIGH CONCENTRATION OF VAPOR. EYES: INJURY IF UNLIKELY BUT STAIN FOR EVIDENCE OF CORNEAL INJURY.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

RESPIRATORY CONDITIONS OR OTHER ALLERGIC AILMENTS.

CARCINOGENICITY

OSHA: NO NTP: Yes IARC: Yes

ADDITIONAL CARCINOGENICITY INFORMATION:

Some colors may contain carbon black - Explanation Of Carcinogenicity for carbon: IARC MONOGRAPHS ON EVALUATION OF CARCINOGENIC RISK OF CHEMICALS TO MAN, VOL 65, PG 149, 1996: GROUP 2B. Titanium Dioxide is listed by IARC as possibly carcinogenic to humans (group 2B).

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	OSHA PEL	ACGIH TLV	OSHA STEL	WEIGHT %
Epoxy phenol novolac resin	28064-14-4	NONE	NONE	NONE	
BISPHENOL F/EPICHLOROHYDRIN EPOXY RESIN	9003-36-5	NONE	NONE	NONE	
(fluroaliphatic polmeric esters) contains 2-propenoic acid, 2-[Methyl](nonafluorobutyl) sulfonyl]amino]ethyl ester, telomere with mrthyloxirane polymer with oxirane di-2-propenoate and methyloxirane polymer with oxirane mono-prpenoate	1017237-78-3	none	none	none	<0.3%
(fluroaliphatic polmeric esters) contains 1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-n-(2-hydroxyethyl)-N-methyl-	34454-97-2	1mg/m3(skin)	none	none	<0.1%
(fluroaliphatic polmeric esters) contain 2-propenoic acid, 2-[methyl]nonafluorobutyl)sulfonyl]amino]ethyl ester	67584-55-8	none	none	none	<0.1%
(fluroaliphatic polmeric esters) contains polyether polymer	NJTSRN 04499600-6437	none	none	none	<0.1%
(fluroaliphatic polmeric esters) contains 2-methoxymethylethoxypropanol	34590-94-8	600mg/m3(skin)	100ppm	150ppm	<0.1%
(fluroaliphatic polmeric esters) contain toluene	108-88-3	200ppm	20ppm	300ppm	<0.1%
MODIFIED DIGLYCIDYL ETHER OF BISPHENOL A	25068-38-6	NONE	NONE	NONE	
ALKYL GLYCIDYL ETHER	69609-97-2	NONE	NONE	NONE	
Siloxanes and silicones, di-me reactions products with silica (non-hazardous)	67762-90-7	none	none	none	
siloxanes and silicones, di-methyl (non-hazardous)	63148-62-9	none	none	none	
Alkyl Phenol	84852-15-3	NONE	NONE	NONE	
Alkyl Phenol blocked Isocyanate	NJTSRN(31765300002) - 6184P	NONE	NONE	NONE	
Colors May Contain:					
*CARBON	1333-86-43.5PPM	3.4PPM	NONE		<1.0
Titanium Dioxide	13463-67-7	10mg/m3	10mg/m3	5mg/m3	

SECTION 3 NOTES: *Indicates toxic chemical(s) subject to reporting requirements of section 313 of Title III and of 40 CFR 372.

Note: Ingredients listed without percentages, the percentages are considered a trade secret.

SECTION 4: FIRST AID MEASURES

EYES:

FLUSH EYES WITH WATER FOR AT LEAST FIFTEEN MINUTES AND CONSULT A PHYSICIAN.

SKIN:

SKIN CONTACT WILL NORMALLY CAUSE NO MORE THAN IRRITATION BUT WASH AFFECTED AREA WITH SOAP AND WATER AND REMOVE CONTAMINATED CLOTHING PROMPTLY.

INGESTION:

LOW IN TOXICITY, INDUCE VOMITING ONLY IF LARGE AMOUNTS OF MATERIAL ARE INGESTED, AND OTHERWISE DO NOT INDUCE VOMITING. IN EITHER CASE CONSULT WITH A PHYSICIAN.

INHALATION:

REMOVE VICTIM TO FRESH AIR AND ADMINISTER OXYGEN IF NECESSARY.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR,
(% by volume)

UPPER: not available
LOWER: not available

FLASH POINT: 200+F

METHOD USED:

SETA FLASH

EXTINGUISHING MEDIA:

FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG

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SPECIAL FIRE FIGHTING PROCEDURES:

DO NOT ENTER CONFINED AREA WITHOUT FULL BUNKER GEAR INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL ALL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

NONE KNOWN.

SECTION 6: RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

WEAR RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF THE SOURCE AT THE LEAK. REMOVE EXCESS WITH VACUUM TRUCK AND TAKE UP THE REMAINDER WITH AN ABSORBENT SUCH AS CLAY AND PLACE IN DISPOSAL CONTAINERS. FLUSH AREA WITH WATER TO REMOVE RESIDUE.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

STORE IN A COOL DRY PLACE. SEAL ALL PARTIALLY USED CONTAINERS. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. MIXED MATERIALS CONTAIN THE HAZARDS OF ALL THE COMPONENTS, THEREFORE, READ THE MSDS'S OF ALL THE COMPONENTS PRIOR TO USING MATERIAL. PROPERLY LABEL ALL CONTAINERS

OTHER PRECAUTIONS:

AVOID ALL SKIN CONTACT. AVOID BREATHING VAPORS GENERATED FROM THE MATERIAL. OBSERVE CONDITIONS OF GOOD GENERAL HYGIENE AND SAFE WORKING PRACTICES. CONTAMINATED LEATHER ARTICLES CAN NOT BE CLEANED AND MUST BE DISCARDED IF CONTAMINATED WITH THIS PRODUCT. WASH ALL CONTAMINATED CLOTHING PRIOR TO THE REUSE THEREOF

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

USE A NIOSH APPROVED RESPIRATOR AS REQUIRED TO PREVENT OVER EXPOSURE TO VAPOR IN ACCORDANCE WITH 29 CFR 1910.134. GENERAL EXHAUST IS USUALLY SUFFICIENT IN LIEU OF NIOSH RESPIRATOR

VENTILATION :

GENERAL EXHAUST IS USUALLY SUFFICIENT TO CONTROL VAPORS AND EXPOSURE HAZARDS

PROTECTIVE GLOVES:

IMPERVIOUS GLOVES – NEOPRENE OR RUBBER

EYE PROTECTION:

SPLASH GOGGLES OR GLASSES WITH SIDE SHIELDS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

WEAR BODY COVERING CLOTHING AND OTHER COVERINGS AS NECESSARY SUCH AS APRON AND APPROPRIATE FOOTWEAR TO AVOID CONTACT WITH MATERIAL.

WORK HYGIENIC PRACTICES:

OBSERVE GOOD GENERAL HYGIENIC PRACTICES.

SEE SECTION THREE FOR OCCPATONAL EXPOSURE LIMIT VALUES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: MEDIUM VISCOSITY LIQUID – amber clear

BOILING POINT OR RANGE: 200F - 392F

VAPOR DENSITY (AIR = 1): N/A

SPECIFIC GRAVITY (H₂O = 1): 1.1

EVAPORATION RATE: N/A

SOLUBILITY IN WATER: NEGLIGIBLE

Odor Threshold: N/A

pH: N/A

Melting point/freezing point: N/A

Vapor Pressure: N/A

Auto Ignition Temperature: N/A

Partition Coefficient: n-octanol/water: N/A

Decomposition Temperature: N/A

SECTION 10: STABILITY AND REACTIVITY

STABILITY:

STABLE

CONDITIONS TO AVOID (STABILITY):

AVOID EXCESSIVE HEAT OR OPEN FLAMES.

INCOMPATIBILITY (MATERIAL TO AVOID):

CAN REACT VIGOROUSLY WITH STRONG OXIDIZING AGENTS AND STRONG LEWIS ACIDS OR MINERAL ACIDS.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

CO₂, ALDEHYDES, ACIDS. REACTION WITH SOME CURING AGENTS CAN GENERATE LARGE AMOUNTS OF HEAT.

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HAZARDOUS POLYMERIZATION:
WILL NOT OCCUR.

SECTION 11: TOXICOLOGICAL INFORMATION

No data for the product itself.

Component data:

Component Epoxy phenol novolac resin CAS# 28064-14-4: LD50 Oral: >4000 mg/kg (adult rat). LD50 skin (adult rabbit) >2000 mg/kg. Mutagenicity was negative in in-vivo genotoxicity assays. Mixed results were seen in in-vitro genotoxicity assays.

Component BISPHENOL F/EPICHLOROHYDRIN EPOXY RESIN CAS# 9003-36-5: Acute Oral Effects: LD50 (rat) >5000 mg/kg. Acute Dermal Toxicity (rabbit) >3000 mg/kg. Inhalation toxicity LC50 (rat) >1.7 mg/l air for a 4-hr aerosol exposure (maximum concentration obtained). Sensitization (guinea pig) causes sensitization. Skin Irritation (rabbit) Causes moderate irritation. Eye irritation (rabbit) Causes slight irritation.

Component CAS# 25068-38-6: Moderate sensitizer, slight eye irritant, moderate skin irritant, Oral LD50 >5000 mg/kg (rat), Dermal LD50 >6000 mg/kg (rabbit)

Component CAS# 68609-97-2: possible sensitizer, eye and skin irritant, Oral LD50 >10000 mg/kg (rat), Inhalation LD50 – no microscopic changes

Components Alkyl Phenol CAS# 84852-15-3 and Alkyl Phenol blocked Isocyanate NJTSRN(31765300002) - 6184P: Acute Oral toxicity LD50 >5000 mg/kg. Skin Irritation: exposure time 4hr – no skin irritation. Eye irritation: slightly irritating (rabbit). Mutagenicity: Genetic Toxicity in vitro: Ames – negative (salmonella typhimurium).

Components Alkyl Phenol CAS# 84852-15-3: Acute Oral Toxicity LD50: 1,300 mg/kg (rat) Acute Dermal Toxicity LD50: 2031 mg/kg (rabbit). Skin Irritation: rabbit, OECD test guideline 404, corrosive. Eye Irritation: rabbit, OECD test guideline 405, irritating to eyes. Sensitization: Dermal, not sensitizer (guinea pig, maximization test. Repeated Dose Toxicity: 28 day, oral, NOAEL, 100mg/kg (rat, male/female, daily). Mutagenicity: Genetic toxicity in vitro, Ames – negative results were reported in various in vitro studies (salmonella typhimurium, Metabolic Activation; with/without). Genetic Oxicity in vitro: Micronucleus Assay: negative (mouse, male/female, oral). Toxicity to Reproduction/Fertility: Three generation study, oral, (rat male/female) NOAEL (parental): 200 ppm, NOAEL (F1) 200 ppm NOAEL (F2): 200 ppm. Reproductive effects have been shown in animal studies. Developmental Toxicity/Teratogenicity: rat, female, oral, gestation, daily, NOAEL (teratogenicity) 300 mg/kg. NOAEL (maternal) 75 mg/kg, no teratonic effects observed at doses tested. No fetotoxicity observed at doses tested.

Component Carbon: IARC lists carbon as a possible human carcinogen Category 2B. LD50 – Intravenous, mouse = 440 mg/kg

Component Titanium Dioxide: Inhalation 4 h LC50 > 6.82 mg/l; Oral LD50 > 5000 mg/kg, rat; In February 2006, IARC listed titanium dioxide as possibly carcinogenic to humans Group 2B.

SECTION 12: ECOLOGICAL INFORMATION

No data for the product itself.

Component data:

Component Epoxy phenol novolac resin CAS# 28064-14-4: Freshwater Fish Toxicity - the acute LC50 is 1-10 mg/L, based on similar materials; Freshwater Invertebrates. Toxicity - the acute EC50 is 1-10 mg/L, based on similar materials. Material is not readily biodegradable.

(Component fluoroaliphatic polymeric esters) Ecological information not determined, Chemical fate information not determined.

Component CAS# 25068-38-6: Biodegradability (Modified Sturm Method) 12%, Fish toxicity: Rainbow trout (96hr) LC50 1.5mg/l, Zebra Fish (96hr) LC50 2.4 mg/l. Invertebrate Toxicity: Daphnia Toxicity (24hr) EC 50 3.6 mg/l

Components Alkyl Phenol CAS# 84852-15-3 and Alkyl Phenol blocked Isocyanate NJTSRN(31765300002) - 6184P: Biodegradation: 0%, exposure time, 28 days – not readily biodegradable. Acute and Prolonged Toxicity to fish: LC0 > 10,000 mg/l (zebra fish, 96 hr). Toxicity to microorganisms: EC50 > 10,000 mg/l.

Components Alkyl Phenol CAS# 84852-15-3: Biodegradation: aerobic, 7%, exposure time, 28 days. Bioaccumulation: fathead minnow, exposure time 20 days, 271 BCF. Acute and Prolonged Toxicity to fish: LC50 = 0.31 mg/l (sheepshead minnow, 96 hr, LC50 0.135 mg/l fathead minnow, 96 hr. Toxicity to microorganisms: EC10 = 10-16 mg/l (Pseudomonas putida). Toxicity to aquatic plants: EC50: 1.3 mg/l, End point: Biomass (green algae, 72 hr)

Component Titanium Dioxide: Pimephales promelas (fathead minnow) < 1000 mg/l @ 96h LC50; Pseudokirchneriella subcapitata (green algae) 61 mg/l @ 72h EC50; Daphnia magna (water flea) > 1000 mg/l @ 48h EC50

SECTION 13: WASTE DISPOSAL

WASTE DISPOSAL METHOD:

DISPOSE OF THE MATERIAL IN A WASTE DISPOSAL SITE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAW.

SECTION 14: Transport Information

DOT: Not Regulated

IMO/MDG: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (CONTAINS Bisphenol A Diglycidyl Ether Polymer) , 9, PGIII, MARINE POLLUTANT

SECTION 15: REGULATORY INFORMATION

No data for the product itself.

Component data:

Component Epoxy phenol novolac resin CAS# 28064-14-4: U.S. Toxic Substances Control Act:

All components of this product are either listed on the U.S. Toxic Substances Control Act (TSCA) inventory of chemicals

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or are otherwise compliant with TSCA regulations. Immediate health hazard. The chemical identity of some or all components present is confidential business information (trade secret) and is being withheld as permitted by 29CFR1910.1200 (j). Component is on the Canadian Domestic Substances List (DSL) Canadian WHMIS Class: D2B

Component BISPHENOL F/EPICHLOROHYDRIN EPOXY RESIN CAS# 9003-36-5: Component is on the TSCA and Canada DSL lists. Component is on the New Jersey and Pennsylvania right to know lists

Component Fluoroaliphatic Polymeric Esters: may contain trace amounts of Section 313 toxic chemicals toluene CAS# 108-88-3. Components on TSCA list or in compliance. Contains chemicals that can cause birth defects or other reproductive harm. The Ingredients are on DSL Canada, Chinas inventory of chemical substances, EINECS, Korean Existing Chemical Inventory Toluene is a California proposition 65 chemical (female reproductive toxin, developmental toxin) This component contains a TSCA section 12(b) chemical (CAS# 1017237-78-3), but is in a quantity less than 0.3%.

Component CAS# 25068-38-6: Considered a hazardous chemical; is on the TSCA list; is on the DSL Canada, WHMIS class D2B; Is on the New Jersey Right to Know list; is on the PA Right to Know List;

Component CAS# 68609-97-2: Considered a hazardous chemical; is on the TSCA list; is on the DSL Canada, Is on the New Jersey Right to Know list; is on the PA Right to Know List.

Component Siloxanes and silicones, di-me reactions products with silica: Included on TSCA, EINECS, MITI, ACOIN, and Canadian DSL inventory or lists.

Component siloxanes and silicones, di-methyl: Included on TSCA, EINECS, MITI, ACOIN, and Canadian DSL inventory or lists.

Components Alkyl Phenol CAS# 84852-15-3 and Alkyl Phenol blocked Isocyanate NJTSRN(31765300002) - 6184P: OSHA hazcom standard rating: Hazardous. Components on the following states Right to know substance list: Massachusetts, New Jersey and Pennsylvania. Components are on the TSCA list

Component Carbon: Contains Proposition 65 Chemicals .Carbon: is listed on TSCA and DSL Canada

Component Titanium Dioxide: Contains Proposition 65 Chemicals, is on the PA Hazardous substance list, is on the NJ right to know Regulated chemical List.

Titanium Dioxide is on inventory or in compliance with EINECS, TSCA, AICS, DSL, ENCS (JP), KECI (KR), PICCS (PH) and INV (CN).

SECTION 16: OTHER INFORMATION

DISCLAIMER: The information Contained herein is based on the data available and is believed to be accurate, However, the manufacturer makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Accordingly, we assume no responsibility for injury from the use of this product.

N/A = Not Available

See Section 1 for date of preparation

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CM 8255 PART B
PRODUCT CODES: 8255 B

MANUFACTURER: QuestMark Flooring, Div. Of Centimark Corporation
STREET ADDRESS: 12 Grandview Circle
CITY, STATE, ZIP: Canonsburg, PA 15317

INFORMATION PHONE: 724-743-7777
EMERGENCY PHONE: Chemtrec 800-424-9300

PREPARED BY: Thomas McElwaine

DATE REVISED: 7/20/2014

Chemical Name or Class: Polyamine mixture

SECTION 2: HAZARDS IDENTIFICATION

Hazard Overview

GHS Classification: : Acute oral toxicity category 4, Acute dermal toxicity category 4, Specific target organ toxicity following repeated exposure category 2, Skin corrosion/irritation category 1, skin sensitizer category 1B, Acute toxicity inhalation category 4, Acute hazard to aquatic environment category 3, Chronic hazards to aquatic environment category 2

GHS Label Elements and Precautionary Statements:

Label Elements: Health hazard, Exclamation Mark, Corrosion, Aquatic Toxicity

Hazard Statements:

Warning: Harmful if swallowed

Warning: Harmful in contact with skin

Warning: May cause damage to organs through prolonged or repeated exposure (kidneys, nervous system, liver, pancreas, spleen, central nervous system) by inhalation or skin contact.

Danger: Causes Severe skin burns and eye damage

Warning: May cause an allergic skin reaction

Warning: Harmful if inhaled

Harmful to aquatic life

Harmful to aquatic life with long lasting effects

Risk Phrases:

R20 Harmful by inhalation

R21/22 Harmful in contact with skin and if swallowed

R22 Harmful if swallowed

R36/37/38 Irritating to eyes, respiratory system and skin

R41 Risk of serious damage to eyes

R42/43 May cause sensitization by inhalation and skin contact

R52 Harmful to aquatic organisms

R53 May cause long-term adverse effects in the aquatic environment

R66 Repeated exposure may cause skin dryness or cracking

Precautionary statements:

P102 Keep out of reach of children.

P103 Read label before use

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P233 Keep container tightly closed.

P234 Keep only in original container.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 Wear respiratory protection.

HMIS HAZARD CLASSIFICATION

HEALTH: 2

FLAMMABILITY: 1

REACTIVITY: 0

PERSONAL PROTECTIVE EQUIPMENT: G

POTENTIAL HEALTH EFFECTS

EYES:

WILL CAUSE BURNS TO THE EYES. HIGH VAPOR CONCENTRATIONS CAN CAUSE SEVERE IRRITATION TO THE EYES.

SKIN:

WILL CAUSE BURNS TO THE SKIN.

INGESTION:

LIQUID CAN CAUSE SEVERE DAMAGE TO MUCOUS MEMBRANES IF SWALLOWED.

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INHALATION:

HIGH CONCENTRATIONS OF VAPOR CAN CAUSE IRRITATION TO THE RESPIRATORY TRACT, NAUSEA, AND DIZZINESS.

HEALTH HAZARDS (ACUTE AND CHRONIC):

PROLONGED OR REPEATED EXPOSURE MAY CAUSE ASTHMA AND SKIN SENSITIZATION OR OTHER ALLERGIC RESPONSES.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

RESPIRATORY CONDITIONS OR OTHER ALLERGIC AILMENTS.

CARCINOGENICITY

OSHA: NO NTP: NO IARC: NO

ADDITIONAL CARCINOGENICITY INFORMATION:

NO LISTED INGREDIENTS OF THIS PRODUCT ARE REGULATED AS CARCINOGENS.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OSHA STEL</u>	<u>WEIGHT %</u>
BENZYL ALCOHOL	100-51-6	NONE	NONE	NONE	
1,2-DIAMINOCYCLOHEXANE	694-83-7	NONE	NONE	NONE	
ALIPHATIC AMINES	Unknown	NONE	NONE	NONE	
*PHENOL	108-95-2	5PPM	5PPM	10PPM	5.0
M-XYLENE DIAMINE	1477-55-0	NONE	.1mg/m3	NONE	
Benzene-1, 3-Dimethaneamine/Phenol/ Formaldehyde	57214-10-5	NONE	NONE	NONE	
*1,2-benzenedicarboxylic acid, dibutyl ester	84-74-2	5mg/m3	5mg/m3	5mg/m3	16

*INDICATES TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND OF 40 CFR 372.

Note: Ingredients listed without percentages, the percentages are considered a trade secret.

SECTION 4: FIRST AID MEASURES

EYES:

IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE LIFTING UPPER AND LOWER LIDS. GET IMMEDIATE MEDICAL ASSISTANCE.

SKIN:

FLUSH SKIN WITH WATER FOR AT LEAST 15 MINUTES AND REMOVE ALL CONTAMINATED CLOTHING IMMEDIATELY. GET MEDICAL ATTENTION IF REDDENING OR SWELLING OCCURS.

INGESTION:

DO NOT INDUCE VOMITING. DILUTE BY GIVING WATER OR MILK TO DRINK IF VICTIM IS CONSCIOUS. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION:

REMOVE TO FRESH AIR IF EFFECTS PERSIST AND ADMINISTER OXYGEN IF NECESSARY.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: not available
(% by volume) LOWER: not available

FLASH POINT: 200+F

METHOD USED:

SETA FLASH

EXTINGUISHING MEDIA:

FOAM, ALCOHOL FOAM, CO2, WATER FOG

SPECIAL FIRE FIGHTING PROCEDURES:

TOXIC FUMES WILL BE EVOLVED WHEN THIS MATERIAL IS INVOLVED IN A FIRE. A SELF-CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR FIRE FIGHTING. COOL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

NONE KNOWN.

SECTION 6: RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

AVOID CONTACT WITH MATERIAL. WEAR THE APPROPRIATE SAFETY EQUIPMENT. STOP SPILL AT SOURCE, DYKE AREA TO PREVENT SPREADING. PUMP LIQUID TO SALVAGE TANK. TAKE UP REMAINDER WITH CLAY OR OTHER ABSORBENT AND PLACE IN DISPOSAL CONTAINERS.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

AVOID ALL SKIN CONTACT. AVOID BREATHING VAPORS. RESEAL PARTIALLY USED CONTAINERS. PROPERLY LABEL ALL CONTAINERS. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. OBSERVE CONDITIONS OF GOOD INDUSTRIAL HYGIENE AND SAFE WORKING PRACTICES.

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OTHER PRECAUTIONS:

MIXED MATERIALS CONTAIN THE HAZARDS OF ALL THE COMPONENTS, THEREFORE, READ THE MSDS OF ALL COMPONENTS TO BECOME FAMILIAR WITH ALL HAZARDS PRIOR TO USING THIS PRODUCT.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

NIOSH APPROVED RESPIRATOR PROTECTION REQUIRED IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROLS. FOR EMERGENCIES A SELF-CONTAINED BREATHING APPARATUS OR A FULL FACE RESPIRATOR IS RECOMMENDED.

VENTILATION:

AVOID BREATHING VAPORS. VENTILATION MUST BE SUFFICIENT TO CONTROL VAPORS.

PROTECTIVE GLOVES:

IMPERVIOUS GLOVES – NEOPRENE OR RUBBER

EYE PROTECTION:

SPLASH GOGGLES OR GLASSES WITH SIDE SHIELDS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

WEAR BODY COVERING CLOTHING AND OTHER COVERINGS AS NECESSARY SUCH AS APRON AND APPROPRIATE FOOTWEAR TO AVOID CONTACT WITH MATERIAL.

WORK HYGIENIC PRACTICES:

OBSERVE GOOD GENERAL HYGIENIC PRACTICES.

SEE SECTION THREE FOR OCCUPATIONAL EXPOSURE LIMIT VALUES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: AMBER CLEAR LIQUID WITH AMINE ODOR.

BOILING POINT OR RANGE: 360F - 401F

VAPOR DENSITY (AIR = 1): N/A

SPECIFIC GRAVITY (H₂O = 1): 1.1

EVAPORATION RATE: N/A

SOLUBILITY IN WATER: NEGLIGIBLE

Odor Threshold: N/A

pH: N/A

Melting point/freezing point: N/A

Vapor Pressure: N/A

Auto Ignition Temperature: N/A

Partition Coefficient: n-octanol/water: N/A

Decomposition Temperature: N/A

SECTION 10: STABILITY AND REACTIVITY

STABILITY:

STABLE

CONDITIONS TO AVOID (STABILITY):

AVOID EXCESSIVE HEAT OR OPEN FLAMES.

INCOMPATIBILITY (MATERIAL TO AVOID):

CAN REACT VIGOROUSLY WITH STRONG OXIDIZING AGENTS AND STRONG LEWIS ACIDS OR MINERAL ACIDS.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

CO₂, ALDEHYDES, ACIDS. REACTION WITH SOME CURING AGENTS CAN GENERATE LARGE AMOUNTS OF HEAT.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

SECTION 11: TOXICOLOGICAL INFORMATION

No data for the product itself.

Component data:

Component Benzyl Alcohol: Inhalation LC50 (4hr) >4178 mg/l (rat), Dermal LD50 2000 mg/kg (rabbit) Rats exposed to 800 mg/kg for thirteen weeks exhibited CNS depression and histopathological changes in the brain, thymus and skeletal muscles. The No observed Adverse effect level (NOAEL) was 400 mg/kg. No evidence of carcinogenicity was seen in two year study with rats and mice.

Component CAS# 694-83-7: LD50 = 2,300 mg/kg (species rat) May cause sensitization by contact or inhalation

For the Components. *PHENOL, M-XYLENE DIAMINE and Benzene-1, 3-Dimethaneamine/Phenol/ Formaldehyde: Ingestion LD50 > 2200 mg/kg (rat), Inhalation LC50 (1h) > 20mg/l (rat), Skin LD50 > 1000 mg/kg (rabbit) all estimated. Eye Irritation – Severe eye irritant, Acute dermal irritation – severe skin irritant.

PHENOL: Adsorption of phenolic solutions through the skin may be very rapid and can cause death. Lesser exposures can cause damage to the kidneys, liver, pancreas and spleen, and edema to the lungs. Chronic exposures can cause death from liver and kidney damage.

Component 1,2-benzenedicarboxylic acid, dibutyl ester CAS# 84-74-2: Dibutyl phthalate: ORAL (LD50): Acute: 7499 mg/kg [Rat]. 3474 mg/kg [Mouse]. 10000 mg/kg [Guinea pig]. DERMAL (LD50): Acute: >20000 mg/kg [Rabbit]. MIST (LC50): Acute: 25000 mg/m 2 hours [Rat]. The substance may be toxic to kidneys, the nervous system, liver, central

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nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage. Toxicity to Animals: WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 3474 mg/kg [Mouse]. Acute dermal toxicity (LD50): >20000 mg/kg [Rabbit]. Acute toxicity of the mist (LC50): 25000 mg/m 2 hours [Rat]. 3

SECTION 12: ECOLOGICAL INFORMATION

No data for the product itself.

Component data:

Component Benzyl Alcohol: EC50 (48hr) 400 mg/l Daphnia Magna, EC50 (72hr) 2600 mg/l Algae, Biodegradation BOD₂ 62. Slightly or not bioaccumulative. Toxicity to fish: LC50 (96 hr) 10 mg/l Bluegill sunfish (*Lepomis macrochirus*), LC50 (96hr) 460 ml/l Fathead minnow (*Pimephales promelas*), Toxicity to Algae: IC50 (72hr) 700 mg/l

PHENOL: Toxicity to Daphnia EC50 (48h) 4.2 mg/l; EC50 (48h) 5.55 mg/l; EC50 (48h) 6.6 mg/l. This component has a low bioaccumulation potential.

Component 1,2-benzenedicarboxylic acid, dibutyl ester CAS# 84-74-2: Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

SECTION 13: WASTE DISPOSAL

WASTE DISPOSAL METHOD:

DISPOSE OF MATERIAL AS A HAZARDOUS WASTE ACCORDING TO FEDERAL, STATE, AND LOCAL REGULATIONS.

SECTION 14: Transport Information

DOT: UN1760, CORROSIVE LIQUID N.O.S. (CONTAINS PHENOL SOLUTIONS, M- XYLENE DIAMINE), 8, PG III

IMO/MDG : UN1760, CORROSIVE LIQUID N.O.S. (CONTAINS PHENOL SOLUTIONS, M- XYLENE DIAMINE, BENZYL ALCOHOL), 8, PG III
, MARINE POLLUTANT

SECTION 15: REGULATORY INFORMATION

No data for the product itself.

Component data:

Component Benzyl Alcohol: E20/22 Harmful by inhalation and if swallowed. On TSCA list, on DSL Canada, EINECS, AICS, ENCS, ECL, SEPA, lists or inventory.

Component CAS# 694-83-7: Component is on the TSCA list and Canada DSL, EINECS, AICS, ENCS, ECL, SEPA, lists or inventory.

Component CAS# 694-83-7, Benzyl Alcohol CAS# 100-51-6, Aliphatic amines: WHMIS Trade Secret Registration Number 5096 grant date 5/4/2004..

Component Aliphatic Amines: on TSCA, EINECS, AICS, ENCS, ECL, SEPA lists or inventory.

For the Components. *PHENOL, M-XYLENE DIAMINE and Benzene-1, 3-Dimethanamine/Phenol/ Formaldahyde: Components are on the TSCA list as well as EINECS, DSL, AICS, ENCS, ECK, SEPA, and PICCS inventory lists.

PHENOL: Is a SARA Title III Section 313 Component above the 'de minimus' level.

Component 1,2-benzenedicarboxylic acid, dibutyl ester CAS# 84-74-2: Federal and State Regulations:

Connecticut hazardous material survey.: Dibutyl phthalate Illinois toxic substances disclosure to employee act: Dibutyl phthalate Illinois chemical safety act: Dibutyl phthalate New York release reporting list: Dibutyl phthalate Rhode Island RTK hazardous substances: Dibutyl phthalate Pennsylvania RTK: Dibutyl phthalate Minnesota: Dibutyl phthalate Massachusetts RTK: Dibutyl phthalate Massachusetts spill list: Dibutyl phthalate New Jersey: Dibutyl phthalate New Jersey spill list: Dibutyl phthalate Louisiana spill reporting: Dibutyl phthalate California Director's List of Hazardous Substances: Dibutyl phthalate TSCA 8(b) inventory: Dibutyl phthalate TSCA 8(a) IUR: Dibutyl phthalate TSCA 8(d) H and S data reporting: Dibutyl phthalate: Effective Date: 10/4/82; Sunset Date: 10/4/92 SARA 313 toxic chemical notification and release reporting: Dibutyl phthalate CERCLA: Hazardous substances.: Dibutyl phthalate: 10 lbs. (4.536 kg)

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances. Other Classifications: WHMIS (Canada): Not controlled under WHMIS (Canada). DSCL (EEC): R50- Very toxic to aquatic organisms. R61- May cause harm to the unborn child. R62- Possible risk of impaired fertility. S45- S61- Avoid release to the environment. .

SECTION 16: OTHER INFORMATION

DISCLAIMER: The information Contained herein is based on the data available and is believed to be accurate, However, the manufacturer makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Accordingly, we assume no responsibility for injury from the use of this product.

N/A = Not Available

See Section 1 for date of preparation