

# SAFETY DATA SHEET

PRODUCT CODE: 8259

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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**PRODUCT NAME:** CM 8259 PART A  
**PRODUCT CODES:** 8259 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:** Novolac epoxy mixture

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## SECTION 2: HAZARDS IDENTIFICATION

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### Hazard Overview

Carcinogenicity category 1, Specific target organ toxicity following repeated exposure category 2, 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,

### GHS Label Elements and Precautionary Statements:

**Label Elements:** Health hazard, Exclamation Mark

### Hazard Statements:

Danger: May cause cancer

Warning: May cause damage to organs through prolonged or repeated exposure (kidney, liver)

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

### 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

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: 1      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):

**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.**

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## 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 2BTitanium 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	
STODDARD SOLVENT	8052-41-3	100 ppm		NONE	
1-Methoxy-2-Propanol Acetate	108-65-6	50ppm	NONE	NONE	
*1,2,4-Trimethylbenzene	95-63-6	25ppm	NONE	NONE	(0.5%)
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	
PROPYLENE GLYCOL MONOMETHYL ETHER	107-98-2	100 ppm	100 ppm	150 ppm	
Hydrophobic Silica	67762-90-7	6mg/m3	10mg/m3	NONE	
MODIFIED DIGLYCIDYL ETHER OF BISPHENOL A	25068-38-6	NONE	NONE	NONE	
Colors may Contain:					
ALKYL GLYCIDYL ETHER	69609-97-2	NONE	NONE	NONE	
Titanium Dioxide	13463-67-7	10mg/m3	10mg/m3	5mg/m3	
*CARBON	1333-86-43.5	PPM	3.4PPM	NONE	<1.0
Precipitated Silica	112926-00-8	NONE	80mg/m3	NONE	
Iron III oxide	1309-37-1	10mg/m3	5mg/m3	NONE	
Yellow Pigment	Not available	NONE	NONE	NONE	
Zinc Sulfate (component of yellow pigment)	1314-98-3	NONE	NONE	NONE	
Barium Sulfate (component of yellow pigment)	7727-43-7	NONE	NONE	NONE	
Titanium Dioxide (component of yellow pigment)	13463-67-7	NONE	NONE	NONE	
Pigment yellow 65 (component of yellow pigment)	6528-34-3	NONE	NONE	NONE	
Iron III oxide	20344-49-4	15mg/m3	5mg/m3	NONE	
C.I. Pigment Blue	147-14-8	1mg/m3	1mg/m3	NONE	
Aluminum Oxide	1344-28-1	15mg/m3	10mg/m3	NONE	
Silica, amorphous	7631-86-9	80mg/m3	10mg/m3	NONE	
Iron Oxide Yellow	51274-00-1	15mg/m3	10mg/m3	NONE	
Silica, amorphous	7631-86-9	80mg/m3	10mg/m3	NONE	

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:

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SETA FLASH

## EXTINGUISHING MEDIA:

FOAM, ALCOHOL FOAM, CO<sub>2</sub>, DRY CHEMICAL, WATER FOG

## 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.

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## SECTION 6: RELEASE MEASURES

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### 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.

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## SECTION 7: HANDLING AND STORAGE

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### 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

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 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.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE AND ODOR: LOW VISCOSITY LIQUID – clear and color

BOILING POINT OR RANGE: 200-392F

VAPOR DENSITY (AIR = 1): N/A

SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 1.3

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

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## SECTION 10: STABILITY AND REACTIVITY

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### STABILITY:

STABLE

### CONDITIONS TO AVOID (STABILITY):

AVOID EXCESSIVE HEAT OR OPEN FLAMES.

### INCOMPATIBILITY (MATERIAL TO AVOID):

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**CAN REACT VIGOROUSLY WITH STRONG OXIDIZING AGENTS AND STRONG LEWIS ACIDS OR MINERAL ACIDS.**  
**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:**  
**CO<sub>2</sub>, ALDEHYDES, ACIDS. REACTION WITH SOME CURING AGENTS CAN GENERATE LARGE AMOUNTS OF HEAT.**  
**HAZARDOUS POLYMERIZATION:**  
**WILL NOT OCCUR.**

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## SECTION 11: TOXICOLOGICAL INFORMATION

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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# 8052-41-3:** Draize test (rabbit) eye: 500 mg/24hr – Moderate. Epidemiology: Studies involving petroleum refinery workers indicate that persons with routine exposure to petroleum based constituents may be at an increased risk to the development of benign neoplasms, digestive tract cancer and skin cancer. LD50 oral >6000 mg/kg (rat). Dermal LD50 >3000 mg/kg (rabbit). Inhalation LC50 = 5500 mg/kg (4 hr) (rat). Component is a moderate skin irritant. Product is an eye irritant.

**Component CAS# 108-65-6:** Oral LD50 = 8532 mg/kg (rat). Dermal LD% >5000 mg/kg (rabbit). Inhalation LC50 >100ppm (4hr) (rat) Component is a moderate skin irritant. Product is an eye irritant

**Component CAS# 95-63-6:** Oral LD50 (rat) = 5000 mg/kg. Inhalation LC50 (rat) -4h = 18000 mg/m<sup>3</sup>.

**Component CAS# 107-98-2:** Ingestion LD50 rat 4016 mg/kg, Dermal LD50 rabbit >2000 mg/kg, Inhalation LC50 6 hr Vapor, rat >25.8 mg/l. May cause eye or skin irritation. May effect Kidney or liver. Has been reported to be toxic to fetus in laboratory animals.

**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

**Component CAS# 67762-90-7:** LD50 (rat >1000 mg/kg, LD50 dermal (rabbit) >2000 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.

**Component CAS# 67762-90-7:** LD50 (rat >1000 mg/kg, LD50 dermal (rabbit) >2000 mg/kg

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

**Component CAS# 112926-00-8:** LD50 (rat >5000 mg/kg, LD50 dermal (rat) >2000 mg/kg

**Component Iron III oxide CAS# 1309-37-1:** Acute Oral Toxicity LD50 >5000 mg/kg (rat). Acute Dermal Toxicity LD50 >5000 mg/kg (rat)

**Component Yellow Pigment:** Not Hazardous as defined by OSHA HC Standard 29 CFR 1810.1200.. Acute oral value of 20 gm/kg or greater in rats

**Component Iron III oxide CAS# 20344-49-4:** Acute Oral Toxicity LD50 >5000 mg/kg (rat).

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## SECTION 12: ECOLOGICAL INFORMATION

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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 CAS# 95-63-6:** Toxicity to fish LC50 (fathead minnow) 7.72 mg/l 96 hr. Toxicity to daphnia and other aquatic invertebrates: Immobilization EC50 (water flea) 3.6mg/l 48hr.

**Component CAS# 107-98-2:** Bioconcentration potential is low (BCF less than 100). Potential for mobility in soil is high (KOC between 0 and 50). Material is readily biodegradable and is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100mg/l in the most sensitive species tested.. LC50 fathead minnow 96 hr 20800 mg/l, LC50 water flea 48 hr lethally 23300 mg/l, EbC50 green algae biomass growth inhibition 7 d >1000 mg/l. Toxicity to microorganisms IC50 activated sludge > 1000 mg/l

**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

**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

**Component CAS# 112926-00-8:** Ecotoxicity: EC50 (fish) .10000 mg/l (daphnia >10000 mg/l

**Component Iron III oxide CAS# 1309-37-1:** Acute and Prolonged Toxicity to fish LC0 >1000 mg/l (golden Orfe). Acute toxicity to Aquatic Invertebrates EC0 > 10000 mg/l (water flea). Toxicity to Microorganisms EC0 > 1000mg/l (pseudomonas putida)

**Component Yellow Pigment:** Not Hazardous as defined by OSHA HC Standard 29 CFR 1810.1200.

**Component Iron III oxide CAS# 20344-49-4:** Acute and Prolonged Toxicity to fish LC0 >1000 mg/l (golden Orfe). Toxicity to Microorganisms EC0 > 10000mg/l (pseudomonas putida)

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## SECTION 13: WASTE DISPOSAL

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**WASTE DISPOSAL METHOD:**

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

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## SECTION 14: Transport Information

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**DOT:** Not Regulated

IMO/MDG: Not Regulated

**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 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 (i). 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 CAS# 8052-41-3:** Component is on the TSCA and Canada DSL lists. Component is on the Pennsylvania, California, New Jersey Massachusetts and Minnesota right to know lists.**Component CAS# 108-65-6:** Listed on TSCA and DSL**Component CAS# 95-63-6:** This component is subject to SARA Title III Section 313 reporting. This component is in the TSCA and Canada DSL Lists. This component is on the Massachusetts, Pennsylvania, New Jersey right to know lists.**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.**Component CAS# 107-98-2;** on the PA right to know list. Product is on the TSCA list and DSL Canada**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 CAS# 67762-90-7:** Non hazardous component**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).

**Component Carbon:** Contains Proposition 65 Chemicals .Carbon: is listed on TSCA and DSL Canada**Component CAS# 112926-00-8:** Is not classified as dangerous. National Chemical Inventory listings include – AICS, DSL, IECSC, EINECS, ENCS, KECI, NZLOC, PICCS, TSCA,**Component Iron III oxide CAS# 1309-37-1**Listed on TSCA Inventory. Section 313/312 hazard category: Chronic health hazard. Potential exposure to all of the California proposition 65 have been determined to be below the No significant risk level (NSRL). Component and its impurities (1%) are on the Pennsylvania, New Jersey right to know substance lists. Component contains the following chemicals listed on the New Jersey and Pennsylvania RTK special hazardous Substance lists: Manganese CAS# 7439-96-5 (0.7%) and Aluminum CAS# 7429-90-5 (0.29%). Component contains the following ingredients which are on the Pennsylvania, Massachusetts hazardous substance lists: Chromium CAS# 7440-47-3 (0.075%) and Nickel CAS# 7440-02-0 (0.04%) Component contains the following chemicals on the California Proposition 65 list known to the state of California to be carcinogenic: Nickel CAS# 7440-02-0 (0.04%) and Cobalt CAS# 7440-48-4 (30 ppm).**Component Yellow Pigment:** Not Hazardous as defined by OSHA HC Standard 29 CFR 1810.1200.**Component Iron III oxide CAS# 20344-49-4:** Listed on TSCA Inventory. Potential exposure to all of the California proposition 65 chemicals have been determined to be below the No significant risk level (NSRL). Components are on the Pennsylvania right to know substance list. Component contains the following chemicals listed on the Pennsylvania RTK special hazardous Substance lists: chromium CAS# 7440-47-3 (0.02%) and nickel CAS# 7440-02-0 (0.015%). Component contains the following ingredients which are on the Massachusetts hazardous substance lists: Chromium CAS# 7440-47-3 (0.02%), arsenic CAS# 7440-38-2 (60ppm), Beryllium CAS# 7440-41-7 (1ppm) and Nickel CAS# 7440-02-0 (0.015%) Component contains the following chemicals on the California Proposition 65 list known to the state of California to be carcinogenic: Nickel CAS# 7440-02-0 (0.015%), arsenic CAS# 7440-38-2 (60ppm), Beryllium CAS# 7440-41-7 (1ppm) and Cobalt CAS# 7440-48-4 (70ppm)..**Component CAS# 147-14-8:** Component is on the TSCA List. and not controlled under WHMIS. Component is a CERCLA hazardous substance**Component CAS# 1344-28-1:** Component is on the Massachusetts, New Jersey, Pennsylvania right to know lists. Component is on TSCA list and Canada DSL.**Component CAS# 7631-86-9:** Component is on the Minnesota right to know list. Component is on TSCA list and Canada DSL.**Component CAS# 51274-00-1:** Component is on the TSCA list and Canada DSL.**Component CAS# 7631-86-9:** Component is on the Minnesota right to know list. Component is on TSCA list and Canada DSL.**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

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**PRODUCT NAME:** CM 8259 PART B  
**PRODUCT CODES:** 8259 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

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## SECTION 2: HAZARDS IDENTIFICATION

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### Hazard Overview

**GHS Classification:** : Acute oral toxicity category 4, Acute dermal toxicity category 4, 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:** Exclamation Mark, Corrosion, Marine Pollutant

### Hazard Statements:

Warning: Harmful if swallowed  
Warning: Harmful in contact with skin  
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  
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.**

#### INHALATION:

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

#### HEALTH HAZARDS (ACUTE AND CHRONIC):

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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	
METHYLENEDI (CYCLOHEXYLAMINE) cyclohexanamine, 4,4-methylenebis reaction products	1761-71-3	NONE	NONE	NONE	
3-AMINOMETHYL-3,5,5-TRIMETHYL CYCLOHEXANE	129733-57-9	NONE	NONE	NONE	
2-HYDROXYBENZOIC ACID	2855-13-2	NONE	NONE	NONE	
Hydrophobic Silica	69-72-7	NONE	NONE	NONE	
	67762-90-7	6mg/m3	10mg/m3	NONE	

\*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.

**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.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**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 OCCPATONAL EXPOSURE LIMIT VALUES.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**APPEARANCE AND ODOR:** AMBER CLEAR LIQUID WITH AMINE ODOR.

**BOILING POINT OR RANGE:** 477F

**VAPOR DENSITY (AIR = 1):** N/A

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 1.0

**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

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**SECTION 10: STABILITY AND REACTIVITY**

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**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:**

CO<sub>2</sub>, ALDEHYDES, ACIDS. REACTION WITH SOME CURING AGENTS CAN GENERATE LARGE AMOUNTS OF HEAT.

**HAZARDOUS POLYMERIZATION:**

WILL NOT OCCUR

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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No data for the product itself.

**Component data:**

**Components BENZYL ALCOHOL CAS# 100-51-6, METHYLENEDI (CYCLOHEXYLAMINE) CAS# 1761-71-3, cyclohexanamine, 4,4-methylenebis reaction products CAS# 129733-57-9:** LD50 > 2000 mg/kg Species rat – method estimated.

**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# 2855-13-2:** Oral LD50 rat 1030 mg/kg, Skin irritation – Corrosive sucategory 1C where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days. Eye irritation – Risk of serious damage to eyes. Product Sensitization (Magnusson-Kingman test) guinea pig: may cause sensitization by skin contact. Product Teratogenicity oral rat NOEL (no observed effect level) 250 mg/kg

**Component CAS# 69-72-7:** Acute Oral Toxicity LD50 (rat) = 891 mg/kg (behavioral somnolence (general depressed activity, Behavioral muscle weakness)). Acute Inhalation LC50 (rat) >900 mg/m<sup>3</sup>, 1 hr. Acute Dermal LD50 (rabbit) >10,000 mg/kg. Skin Irritation (rabbit) – mild skin irritation - 24hr. Eye Irritation (rabbit) – severe eye irritation.

**Component CAS# 67762-90-7:** LD50 (rat >1000 mg/kg, LD50 dermal (rabbit) >2000 mg/kg

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**SECTION 12: ECOLOGICAL INFORMATION**

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No data for the product itself.

**Component data:**



# SAFETY DATA SHEET

PRODUCT CODE: 8259

**Component Benzyl Alcohol:** EC50 (48hr) 400 mg/l Daphnia Magna, EC50 (72hr) 2600 mg/l Algae, Biodegradation BOD<sub>2</sub> 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

**Component METHYLENEDI (CYCLOHEXYLAMINE) CAS# 1761-71-3:** LC50 (96hr) 46-100 mg/l (species golden orfe). EC50 (48hr) 6.84 mg/l (species Daphnia magna). IC50 (72hr) 140-200 mg/l (species algae)

**Component cyclohexanamine, 4,4-methylenebis reaction products CAS# 129733-57-9:** LC50 (96hr) 7.8 mg/l (species rainbow trout)

**Component CAS# 2855-13-2:** Biodegradability 42% and is not readily biodegradable. Bioaccumulation: - no significant accumulation of the substance in organisms is to be expected. Mobility: The soil mobility of the substance is only minimally affected by adsorption to soil components. Toxicity to fish: LC50 *Lauciscus idus* 110 mg/l (96hr). Toxicity to Daphnia NOEC 3 mg/l (504hr). EC50 Daphnia magna 23 mg/l (48 hr). ErC50 *scenedesmus subspicatus* 50 mg/l (72 hr). NOEC *scenedesmus subspicatus* 1.5 mg/l (72 hr). Toxicity to bacteria: EC10 *Pseudomonas putida* 1120 mg/l (18 hr).

**Component CAS# 69-72-7:** Toxicity to Fish LC50 (*Leuciscus idus* – 96 mg/l. Toxicity to Daphnia magna – 105mg/l, 24 hr. Component Mutagenic Effects: Mutagenic for bacteria and/or yeast. Developmental toxicity: Classified reproductive system toxin/female, development toxin possible.

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## SECTION 13: WASTE DISPOSAL

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### WASTE DISPOSAL METHOD:

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

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## SECTION 14: Transport Information

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**DOT:** UN1760, CORROSIVE LIQUID N.O.S. (CONTAINS ISOPHORONE DIAMINE, 2-HYDROXY BENZOIC ACID), 8, PG III

**IMO/MDG:** UN1760, CORROSIVE LIQUID N.O.S. (CONTAINS ISOPHORONE DIAMINE, 2-HYDROXY BENZOIC ACID, METHYLENEDI(CYCLOHEXANE), 8, PG III, MARINE POLLUTANT

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## SECTION 15: REGULATORY INFORMATION

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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.

**Components METHYLENEDI (CYCLOHEXYLAMINE) CAS# 1761-71-3, cyclohexanamine, 4,4-methylenebis reaction products CAS# 129733-57-9:** Included on TSCA, EINECS, AICS, ENCS, ECL, SEPA lists. Canada DSL – not on inventory, Notifications have been submitted to Environment Canada.

**Component CAS# 2855-13-2:** Acute health hazard. Ingredients on TSCA. International Chemical status listed/registered – EINECS/ELINCS, DSL, AICS, MITI, TCOL, PICCS, China, New Zealand.

**Component CAS# 69-72-7:** Component is on the Pennsylvania and New Jersey right to know lists. Component is on the TSCA and Canada DSL lists.

**Component CAS# 67762-90-7:** Non hazardous component

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## SECTION 16: OTHER INFORMATION

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**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