

# SAFETY DATA SHEET

PRODUCT CODE: 2130

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** CM 2130 PART A  
**PRODUCT CODES:** 2130 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:** 7/20/14

**Chemical Name or Class:** Epoxy mixture

## SECTION 2: HAZARDS IDENTIFICATION

### Hazard Overview

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

### GHS Label Elements and Precautionary Statements:

**Label Elements:** 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  
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  
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.  
P285 In case of inadequate ventilation wear respiratory protection.

### HMIS HAZARD CLASSIFICATION

**HEALTH:** 1      **FLAMMABILITY:** 1      **REACTIVITY:** 0      **PERSONAL PROTECTIVE EQUIPMENT:** B

### 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 CONCENTRATIONS OF VAPOR. EYES: INJURY IS UNLIKELY BUT STAIN FOR EVIDENCE OF CORNEAL INJURY.

#### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

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RESPIRATORY INGREDIENTS OF THIS PRODUCT ARE REGULATED AS CARCINOGENS.

## CARCINOGENICITY

OSHA: NO NTP: NO IARC: NO

## ADDITIONAL CARCINOGENICITY INFORMATION:

N/A

### 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>
MODIFIED DIGLYCIDYL ETHER OF BISPHENOL A	25068-38-6	NONE	NONE	NONE	
ALKYL GLYCIDYL ETHER	68609-97-2	NONE	NONE	NONE	

#### SECTION 3 NOTES:

\*\*\*No toxic chemical(s) subject to the reporting requirements of section 313 Title III and of 40 CFR 372 are present.\*\*\*

**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 IMMEDIATELY CONSULT 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, CO<sub>2</sub>, DRY CHEMICAL, WATER FOG

#### SPECIAL FIRE FIGHTING PROCEDURES:

DO NOT ENTER CONFINED FIRE 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:

NO UNUSUAL FIRE HAZARDS 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.

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## 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.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE AND ODOR:** LOW VISCOSITY LIQUID – AMBER CLEAR or COLORS

**BOILING POINT OR RANGE:** 200+ F

**VAPOR DENSITY (AIR = 1):** Not available

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 1.1

**EVAPORATION RATE:** not available

**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:

**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

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## SECTION 12: ECOLOGICAL INFORMATION

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No data for the product itself.

### Component data:

**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

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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/IMDG:** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (CONTAINS Bisphenol A Diglycidyl Ether Polymer) , 9, PGIII, Marine Pollutant

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## SECTION 15: REGULATORY INFORMATION

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No data for the product itself.

Component data:

**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.

EPA SARA Title III Section 313 components above the de minimus level: none

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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

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** CM 2130 PART B  
**PRODUCT CODES:** 2130 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/coal tar mixture

## SECTION 2: HAZARDS IDENTIFICATION

### Hazard Overview

**GHS Classification:** Acute oral toxicity category 4, Acute dermal toxicity category 4, Acute toxicity inhalation category 4, Skin corrosion category 2, Serious eye irritation category 1, skin sensitizer category 1B, Carcinogenicity category 1, 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: Causes skin irritation  
Warning: May cause an allergic skin reaction  
Danger: Causes serious eye damage  
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:** 3      **FLAMMIBILITY:** 1      **REACTIVITY:** 0      **PERSONAL PROTECTIVE EQUIPMENT:** G

### POTENTIAL HEALTH EFFECTS

#### EYES:

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

#### SKIN:

**WILL CAUSE BURNS TO THE SKIN. IF NOT WASHED OFF THE SKIN AND WHEN ACCENTUATED BY SUNLIGHT BURNS CAN RESULT.**

#### 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. OVEREXPOSURE MAY RESULT IN ACUTE TOXIC EFFECTS, RESPIRATORY DIFFICULTY, CONVULSIONS, AND POSSIBLE CARDIOVASCULAR COLLAPSE.**

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

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

**Coal Tar Pitch Emergency Overview:** (Danger This product is carcinogenic to humans. Repeated or prolonged contact with skin may cause dermatitis and hyperpigmentation of skin. Avoid breathing dust/fume/gas/mist/vapours and sprays. This product is irritating to the eyes, the skin and the respiratory tract. Exposure to sun may enhance the irritating effect of coal tar pitch on skin and eyes and lead to burns. High vapor concentrations may cause dizziness. Use in well-ventilated areas. Avoid prolonged and/or repeated contact including vapors. If appropriate, respiratory protection and other personal protective equipment should be used. )

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:**  
**RESPIRATORY CONDITIONS OR OTHER ALLERGIC AILMENTS.**

## CARCINOGENICITY

OSHA: YES      NTP: YES      IARC: YES

## ADDITIONAL CARCINOGENICITY INFORMATION:

Coal Tar: FREQUENT, PROLONGED OR OCCASIONAL BUT INTENSIVE CONTACT WITH THE SKIN OVER A MANY YEAR PERIOD. IN THE ABSENCE OF RECOMMENDED HYGIENE PRACTICES, MAY LEAD TO SKIN PIGMENTATION, BENIGN SKIN GROWTHS AND IN SOME CASES MAY RESULT IN SKIN CANCER. Coal tar pitch is an IARC Group 1 Human carcinogen, an ACGIH A1 Known human carcinogen

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	OSHA PEL	ACGIH TLV	OSHA STEL	WEIGHT %
DIETHYLENTRIAMINE	111-40-0	1ppm	1ppm	NONE	
*BISPHENOL A	80-05-7	NONE	NONE	NONE	1%
NONYL PHENOL	25154-52-3	NONE	NONE	NONE	
N-AMINOETHLPIPERAZINE	140-31-8	NONE	NONE	NONE	
*COAL TAR PITCH (also see section 15 for a chemical list of components contained in the Coal Tar Pitch)	65996-93-2	.2MG/M3	.2MG/M3	NONE	65%

\*\*\*Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present.\*\*\*  
REGULATORY STANDARD – NIOSH CRITERIA DOCUMENT, COAL TAR PITCH PRODUCTS. USEPA – 40 CFR 112. (CAS# 65996-93-2 represents the benzene soluble fraction for coal tar pitch volatiles.

**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 FIFTEEN 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 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,**      **UPPER:** not available  
(% by volume)      **LOWER:** not available

**FLASH POINT:** 200+F

**METHOD USED:**

SETA FLASH

**EXTINGUISHING MEDIA:**

FOAM, ALCOHOL FOAM, CO<sub>2</sub>, 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:**

WATER/FOG IS RECOMMENDED FOR CONTROL OF UNCONFINED FIRE, BUT WATER MAY CAUSE FROTHING OR ERUPTION IN CLOSED TANK.

## 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.

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**SECTION 7: HANDLING AND STORAGE**

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**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

AVOID ALL SKIN CONTACT. AVOID BREATHING VAPORS. RESEAL PARTIALLY USED CONTAINERS. PROPERLY LABEL ALL CONTAINERS. WASH SKIN AREAS THOROUGHLY (DO NOT USE SOLVENTS TO WASH SKIN) 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 OCCPATIONAL EXPOSURE LIMIT VALUES.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**APPEARANCE AND ODOR:** BLACK LIQUID WITH AMINE ODOR

**BOILING POINT OR RANGE:** 560 TO 631 f

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

**SPECIFIC GRAVITY (H<sub>2</sub>O = 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

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**SECTION 10: STABILITY AND REACTIVITY**

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**STABILITY:**

STABLE

**CONDITIONS TO AVOID (STABILITY):**

AVOID CONTACT WITH OPEN FLAMES AND ALL SOURCES OF IGNITIONS AND SPARKS.

**INCOMPATIBILITY (MATERIAL TO AVOID):**

AVOID CONTACT WITH WATER WHEN IN CONFINED AREA, OXIDIZING AGENTS MINERAL ACIDS AND EPOXY RESINS IN UNCONTROLLED AMOUNTS.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:**

CO, CO<sub>2</sub>, NOX.

**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 CAS# 111-40-0:** inhalation: LC50 (4hr) <0.3 mg/l (rat); Skin: LD50 >5000 mg/kg( rabbit) Ingestion: LD50 2960 mg/kg (rat). Severe Eye irritation, Moderate skin irritation, May cause sensitization by skin contact or inhalation.

**Component CAS# 80-05-7:** Ingestion LD50 Oral (rat) = 3250 mg/kg. Irritation Data Skin (rabbit) 500 mg/24 hr (mild irritation effects. Irritation data eyes (rabbit) 0.25mg/24 hr (severe irritation effect). Skin contact or inhalation may cause sensitization. Component may impair fertility based on toxicology of similar products.

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**Component CAS# 140-31-8:** Draize test, rabbit, eye: 20 mg/24H Moderate; Draize test, rabbit, skin: 5 mg/24H Severe; Oral, rat: LD50 = 2140 uL/kg; Skin, rabbit: LD50 = 880 uL/kg; Carcinogenicity: Not listed by ACGIH, IARC, NTP, or CA Prop 65. May cause Sensitization by skin contact.

**Component Nonyl Phenol:** Median Lethal Dose Oral: LD50 0.58g/kg (rat) moderately toxic. Dermal LD50 2.14g/kg (rabbit) slightly toxic. Skin Draize Test, rabbit, : 500 mg/m<sup>3</sup> 24hr – corrosive. Eyes Draize test rabbit, 57.00/110 – extremely irritating. Component is a possible risk of impaired fertility.

**COMPONENT COAL TAR PITCH CAS# 65996-93-2:** Acute Toxicity LD50 (rat) >5000 mg/kg. Dermal: This component is positive for carcinoma and papillomas. Inhalation: Tumors (lungs, bladder, kidneys, other).

The following toxicity data has been determined for Crude Coal Tar by using the information available for its components applied to the guidance on the preparation of an SDS under the requirements of the GHS:

Notes:

a. No LC50 or LD50 has been established for Crude Coal Tar (as Tar, Coal high temp) as a mixture:

- Causes respiratory tract irritation

b. The following Skin Irritation information was found for Crude Coal Tar (as Tar, Coal high temp):

- Irritating

c. The following Eye Irritation information was found for Crude Coal Tar (as Tar, Coal high temp):

- Causes eye irritation

d. The following Skin Sensitization information was found for Crude Coal Tar (as Tar, Coal high temp):

- Photosensitizing

e. No Germ Cell Mutagenicity data available for Crude Coal Tar (as Tar, Coal high temp) as a mixture.

f. Carcinogenicity: IARC and NTP list Crude Coal Tar (as Tar, Coal high temp) as a category 1A carcinogen. Classified by IARC and the European Commission as a Known Human Carcinogen.

The above toxicity information was determined from available scientific sources to illustrate the prevailing posture of the scientific community. The scientific resources includes: The American Conference of Governmental Industrial Hygienist (ACGIH) Documentation of the Threshold Limit Values (TLVs) and Biological Exposure indices (BEIs) with Other Worldwide Occupational Exposure Values 2009, The International Agency for Research on Cancer (IARC), The National Toxicology Program (NTP) updated documentation, the World Health Organization (WHO) and other available resources, the International Uniform Chemical Information Database (IUCLID), European Union Risk Assessment Report (EU-RAR), Concise International Chemical Assessment Documents (CICAD), European Union Scientific Committee for Occupational Exposure Limits (EU-SCOEL), Agency for Toxic Substances and Disease Registry (ATSDR), Hazardous Substance Data Bank (HSDB), and International Programme on Chemical Safety (IPCS).

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## SECTION 12: ECOLOGICAL INFORMATION

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**Component CAS# 80-05-7:** Acute Ecotoxicity tests LC50 (fathead minnow) 96 hr = 4.6 mg/l. LC50 (daphnia magna) 48 hr = 3.9 mg/l. LC50 (algae) 96 hr = 2.73 mg/l.

**Component Nonyl Phenol:** Ecotoxicity: Daphnia EC50: 0.14-0.44 mg/l, 48 hr. Component is not readily biodegradable, log Pow: 3-4. Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.. Aquatic Toxicity LC50 96 hr, toxicity rating is <0.10 ppm – extremely toxic

**COMPONENT COAL TAR PITCH CAS# 65996-93-2:** Ecotoxicity: NOEC >1 g/l (Daphnia magna). NOEC > 1 g/l (Chlorella sp). Persistence and Degradability: Evidence exists for biodegradation processes. Bioaccumulative potential: The product has potential for bioaccumulation. Individual Coal tar components of the product have been found to be absorbed by plants from soil.

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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 DIETHYLENTRIAMINE, N-AMINOETHYLPIPERAZINE, COAL TAR, NONYL PHENOL), 8, PG III, MARINE POLLUTANT

**IMO/MDG :** UN1760, CORROSIVE LIQUID N.O.S. (CONTAINS DIETHYLENTRIAMINE, N-AMINOETHYLPIPERAZINE, COAL TAR, NONYL PHENOL), 8, PG III, MARINE POLLUTANT

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## SECTION 15: REGULATORY INFORMATION

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**Component CAS# 111-40-0:** on TSCS List, OSHA hazard class – Irritant. Regulatory List: On TSCA, on EINECS, DSL, AICS, ENCS, ECL, SEPA, PICCS.

**Component CAS# 80-05-7:** This component is subject to SARA section 313 reporting requirements. Component is on TSCA EINECS, AICS, ENCS, ECL, SEPA, PICCS and Canada DSL lists.

**Component CAS# 140-31-8:** Component is listed on the TSCA inventory. Component can be found on the following state right to know lists: New Jersey, Pennsylvania, Massachusetts. Component contains no California Prop 65 Significant Risk Level: and none of the chemicals in this product are listed. Component is list on the Canadian DSL list, EINECS, AICS, ENCS, ECL, SEPA, PICCS lists.

**Component Nonyl Phenol:** This component is listed on TSCA, EINECS, ACIS, MITI and Canada DSL lists.

**COMPONENT COAL TAR PITCH CAS# 65996-93-2:** TSCA: All components listed or polymer exempt. This product and/ or its constituents are subject to the following regulations:



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PRODUCT CODE: 2130

OSHA Regulations: OSHA has not established a substance-specific standard for occupational exposure to Crude Coal Tar. However, exposures are regulated under OSHA Air Contaminants Standard (29 CFR 1910.1000 Table Z-1) as Coal Tar Pitch Volatiles (CTPV).

**Section 313 Supplier Notification:** This product contains the following toxic chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372 – AS Marked. The remaining chemicals are Designated hazardous chemicals with reportable quantities.:

CAS #	Chemical Name	Percent by Weight
218-01-9 (40CFR 302.4)	Chrysene,	0.5 – 0.8
56-55-3 (40CFR 302.4)	1,2-Benzanthracene	0.5 – 1.0
50-32-8 (40CFR 302.4)	Benzo(a)pyrene	0.4 – 0.7
205-99-2 (40CFR 302.4)	Benzo(b)Fluoranthene	0.3 – 0.7
132-64-9 (40CFR 302.4)	Dibenzofuran	0.4 – 0.7
83-32-9 (40CFR 302.4)	Acenaphthene	0.4 – 0.8
120-12-7 (SARA 313)	Anthracene	0.7 – 1.0
206-44-0 (40CFR 302.4)	Fluoranthene	1.5 – 2.5
85-01-8 (SARA 313)	Phenanthrene	1 - 3
91-20-3 (SARA 313)	Naphthalene	0.8 – 1.5
53-70-3 (40CFR 302.4)	Dibenz (a,h) anthracene	0.07 – 0.11
193-39-5 (40CFR 302.4)	Indeno (1,2,3-cd) pyrene	0.5 – 1.0
92-52-4 (40CFR 302.4)	Biphenyl	0 – 0.2
Category No. N590	Polycyclic aromatic compounds (PACs)	4.8 – 8.5
129.00.0 (SARA 302) (40CFR 355)	Pyrene	1 – 2

**State Regulations:** The product, **Crude Coal Tar** as a whole is not listed in any state regulations. However, individual components of the product are listed in various state regulations:

- **Pennsylvania Right to Know:** **Crude Coal Tar** as a whole is not listed. However, individual components of the product are listed.
- **California Prop. 65:** **Crude Coal Tar** as a whole is not listed. However, individual components of the product are listed.
- **New Jersey:** **Crude Coal Tar** as a whole is not listed. However, individual components of the product are listed.
- **Minnesota:** **Crude Coal Tar** as a whole is not listed. However, individual components of the product are listed.
- **Massachusetts:** **Crude Coal Tar** as a whole is not listed. However, individual components of the product are listed.

**Other regulations:** **Crude Coal Tar** as a whole may not be listed in other regulations. However, individual components may be listed, check appropriate regulations for further regulatory compliance.

**WHMIS Classification (Canadian):** **Crude Coal Tar** (listed as Tar Decanter Sludge) is listed as a **D2A**.

## 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

# SAFETY DATA SHEET

PRODUCT CODE: 2130

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** CM 2130 PART C  
**PRODUCT CODES:** 2130 C

**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:** sand

## SECTION 2: HAZARDS IDENTIFICATION

### Hazard Overview

**GHS Classification:** Carcinogenicity category 1, Specific target organ toxicity following repeated exposure category 1, Skin irritation category 3, Serious eye irritation category 2B

### GHS Label Elements and Precautionary Statements:

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

#### Hazard Statements:

DANGER: May cause cancer

Warning: Causes damage to organs through prolonged or repeated exposures (lungs, respiratory system)

Warning: Causes mild skin irritation

Warning: Causes eye irritation

#### Risk Phrases

R20 Harmful by inhalation

R33 Danger of cumulative effects

R36/37 Irritating to eyes and respiratory system

R45 May cause cancer

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation

R68/20 Harmful: possible risk of irreversible effects through inhalation

#### 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.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P281 Use personal protective equipment as required.

P284 Wear respiratory protection.

### HMIS HAZARD CLASSIFICATION

**HEALTH: 2**      **FLAMMABILITY: 0**      **REACTIVITY: 0**      **PERSONAL PROTECTIVE EQUIPMENT: E**

### POTENTIAL HEALTH EFFECTS

#### EYES:

MAY CAUSE REDDENING OF THE EYES OR EYE IRRITATION FROM AIRBORNE PARTICLES.

#### SKIN:

NONE KNOWN

#### INGESTION:

NONE KNOWN

#### INHALATION:

PROLONGED EXPOSURE TO RESPIRABLE CRYSTALLINE QUARTZ MAY CAUSE DELAYED LUNG INJURY (SILICOSIS). ACUTE OR RAPIDLY DEVELOPING SILICOSIS MAY OCCUR IN A SHORT PERIOD OF TIME IN HEAVY EXPOSURE IN SOME APPLICATIONS SUCH AS SAND BLASTING.

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

MAY CAUSE DELAYED SILICOSIS OR RAPID SILICOSIS IN SOME OCCUPATIONS SUCH AS SANDBLASTING, SILICOSIS IS A FORM OF A DISABLING PULMONARY FIBROSIS WHICH CAN BE PROGRESSIVE AND COULD LEAD TO DEATH. INHALATION MAY LEAD TO LUNG SCARRING AND MASSIVE FIBROSIS WHICH COULD BE ACCOMPANIED BY RIGHT HEART ENLARGEMENT, HEART FAILURE, OR PULMONARY FAILURE, SMOKING AGGRAVATES THE EFFECTS OF EXPOSURE.

#### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

RESPIRATORY CONDITIONS OR OTHER ALLERGIC AILMENTS CAN BE AGGRAVATED BY EXPOSURE

#### CARCINOGENICITY

OSHA: NO      NTP: YES      IARC: YES

#### ADDITIONAL CARCINOGENICITY INFORMATION:

# SAFETY DATA SHEET

PRODUCT CODE: 2130

IARC HAS DETERMINED THAT CRYSTALLINE SILICA INHALED IN THE FORM OF QUARTZ IS CARCINOGENIC TO HUMANS (GROUP 1- CARCINOGENIC TO HUMANS). THE NTP CLASSIFIES RESPIRABLE CRYSTALLINE SILICA AS REASONABLY ANTICIPATED TO BE A CARCINOGEN.

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OSHA STEL</u>	<u>WEIGHT %</u>
SILICON DIOXIDE	14808-60-7	10mg/m3	.1mg/m3	.1mg/m3	100

### SECTION 2 NOTES:

\*\*\*No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present.\*\*\*

FOLLOW OSHA HAZARD COMMUNICATION RULE 29CFR SECTIONS 1910.1200, 1915.99, 1917.28, 1918.9, 1926.59, AND STATE AND LOCAL COMMUNITY RIGHT TO KNOW LAWS. WE RECOMMEND THAT SMOKING BE PROHIBITED IN AREAS WHERE RESPIRATORS MUST BE USED.

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## SECTION 4: FIRST AID MEASURES

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### EYES:

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

### SKIN:

SKIN CONTACT WILL NORMALLY CAUSE NO HEALTH RISKS

### INGESTION:

IF INGESTED, CONSULT A PHYSICIAN

### INHALATION:

REMOVE VICTIM TO FRESH AIR AND ADMINISTER OXYGEN IF NECESSARY.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

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## SECTION 5: FIRE-FIGHTING MEASURES

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FLAMMABLE LIMITS IN AIR,  
(% by volume)

UPPER: not available  
LOWER: not available

FLASH POINT<sup>o</sup> F: N/A

METHOD USED:

N/A

EXTINGUISHING MEDIA:

OTHER

SPECIAL FIRE FIGHTING PROCEDURES:

CRYSTALLINE SILICA IS NEITHER A FIRE NOR AN EXPLOSION HAZARD

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 USE DUSTLESS HANDLING EQUIPMENT TO CLEAN UP LARGE SPILLS, PLACE IN SUITABLE CONTAINERS FOR DISPOSAL. FLUSH AREA WITH WATER AFTER PICKUP OF MATERIAL.

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## SECTION 7: HANDLING AND STORAGE

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### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

STORE IN COOL DRY PLACE. PROPERLY LABEL ALL CONTAINERS AND RESEAL ALL PARTIALLY USED CONTAINERS. AVOID CREATING ANY DUST WHEN WORKING WITH THIS MATERIAL.

### OTHER PRECAUTIONS:

AVOID BREATHING DUST GENERATED FROM THE MATERIAL. OBSERVE CONDITIONS OF GOOD GENERAL HYGIENE AND SAFE WORKING PRACTICES. PROVIDE TRAINING FOR YOUR EMPLOYEES RELATING TO OCCUPATIONAL EXPOSURE TO QUARTZ DUST. SEE ASTM STANDARD E1132-86 STANDARD PRACTICE FOR HEALTH REQUIREMENTS RELATING TO EXPOSURE TO QUARTZ DUST. IF BETTER THAN 500 X PEL USE A SELF CONTAINED BREATHING APPARATUS. IF SANDBLASTING, USE ANY TYPE CE SUPPLIED AIR RESPIRATOR WITH FULL FACE PIECE OR HOOD.

### Safety phrases

S22 Do not breathe dust

S25 Avoid contact with eyes

S38 In case of insufficient ventilation wear suitable respiratory equipment

S39 Wear eye/face protection

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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 QUARTZ DUST. PROVIDE SUFFICIENT EXHAUST TO KEEP EXPOSURE LEVELS BELOW THE ACGIH PEL.

### VENTILATION:

USE EXHAUST SUFFICIENT TO MAINTAIN AIRBORNE PARTICULATES BELOW THE ACGIH PEL LIMITS ESTABLISHED.

# SAFETY DATA SHEET

PRODUCT CODE: 2130

## PROTECTIVE GLOVES:

N/A

## EYE PROTECTION:

SPLASH GOGGLES OR GLASSES WITH SIDE SHIELDS.

## OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

PROVIDE ANY EQUIPMENT NECESSARY TO PREVENT THE INHALATION OF QUARTZ DUST.

## 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:** WHITE OF TAN SAND GRANULAR CRUSHED OR GROUND- NO ODOR

**BOILING POINT OR RANGE ° F:** N/A

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

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 2.6

**EVAPORATION RATE:** N/A

**SOLUBILITY IN WATER:** INSOLUBLE IN WATER

**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):

CONTACT WITH POWERFUL OXIDIZING AGENTS SUCH AS FLUORINE, CHLORINE, TRIFLUORIDE, MANGANESE TRIOXIDE, OXYGEN TRIFLUORIDE

### INCOMPATIBILITY (MATERIAL TO AVOID):

CAN REACT VIGOROUSLY WITH STRONG OXIDIZING AGENTS- SEE CONDITIONS TO AVOID

### HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

SILICA WILL DISSOLVE IN HYDROCHLORIC ACID TO FORM A CORROSIVE GAS- SILICON TETRAFLUORIDE

### HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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Silicon dioxide: Inhalation and retention of respirable crystalline silica can cause silicosis in several forms, chronic, accelerated or acute. Acute silicosis can occur with exposures to high concentrations of respirable crystalline silica over a very short time period, the symptoms of acute silicosis include progressive shortness of breath, fever, cough, and weight loss. Acute silicosis can be fatal. IARC concluded that there was sufficient evidence in humans for the carcinogenicity of crystalline silica in the form of quartz (Group 1). Exposure to respirable crystalline silica can also be associated with autoimmune disease, tuberculosis, kidney damage, non-malignant respiratory disease. For further information, the NIOSH Hazard Review- Occupational Effects of Occupational Exposure to Respirable Crystalline Silica published in April of 2002 should be reviewed.

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## SECTION 12: ECOLOGICAL INFORMATION

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Silicon Dioxide: There is no data that suggests that crystalline silica is toxic to birds, fish, invertebrates, microorganisms or plants.

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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 LAWS.

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## SECTION 14: Transport Information

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**DOT:** Not Regulated

**IMO/MDG** Not regulated

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## SECTION 15: REGULATORY INFORMATION

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Silicon Dioxide: risk phrases: R 48/20 Harmful – Danger of serious damage to health by prolonged exposure through inhalation. Safety Phrases: S 22 – Do not breathe dust and S 38 – In case of insufficient ventilation, wear suitable respiratory equipment

Crystalline Silica (Silicon Dioxide) is on the TSCA list. NTP list as a known human carcinogen, California proposition 65 list as a known carcinogen, Massachusetts Toxic Use Reduction Act list as toxic, Pennsylvania Worker and community right to know Act list as a hazardous substance.

# SAFETY DATA SHEET

PRODUCT CODE: 2130

Crystalline Silica (Silicon Dioxide) is on the Canada DSL – WHMIS Classification D2A

Crystalline Silica is on the Australian Inventory of Chemicals Substances list, Japan Ministry of International Trade and Industry list, Korea Existing Chemicals Inventory with registry number 9212-5667 and the Phillipines Inventory of Chemicals and Chemical Substances list.

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## SECTION 16: OTHER INFORMATION

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N/A = Not Available

See Section 1 for date of preparation