

**SAFETY DATA SHEET**

REVISION DATE: 07-18-2017

SUPERSEDES: 01-14-2016

**SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER****PRODUCT INFORMATION**

PRODUCT: CHILDERS ENCACEL X-1C24  
PRODUCT DESCRIPTION: Mastic  
INTENDED USE: Adhesive  
PRODUCT IDENTIFIER: 807612PM

**COMPANY INFORMATION**

H.B. Fuller Construction Products Inc.  
1105 S. Frontenac Street  
Aurora, IL 60504  
Phone: 1-800-552-6225

Medical Emergency Phone Number (24 Hours): 1-888-853-1758  
Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

**SECTION 2: HAZARDS IDENTIFICATION****GHS Hazard Symbols:**

**GHS Signal Word:** Danger  
**GHS Classification:** Skin Sensitisation Category 1; Germ Cell Mutagenicity Category 1B; Carcinogenicity Category 1A; Reproductive Toxicity Category 1B; Hazardous to the aquatic environment - Acute Category 1; Skin Corrosion/Irritation Category 2; Serious Eye Damage/Eye Irritation Category 2; Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2; Hazardous to the aquatic environment - Chronic Category 2; Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3

**GHS Hazard Phrases:** Causes skin irritation.; May cause an allergic skin reaction.; Causes serious eye irritation.; May cause respiratory irritation.; May cause drowsiness or dizziness.; May cause genetic defects.; May cause cancer.; May damage fertility or the unborn child.; May cause damage to organs through prolonged or repeated exposure.; Very toxic to aquatic life.; Toxic to aquatic life with long lasting effects.

**GHS Precautions:**

**Safety Precautions:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

**First Aid Measures:** IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. P362+P364 - Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before

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**Storage:** reuse. Collect spillage. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	PERCENT	Classification	Note
Feldspar group minerals	68476-25-5	10 - 30	Eye Irrit. 2; H319 STOT SE 3; H335, H336	
Tetraalkyl ammonium synectite	71011-27-3	1 - 5	Aquatic Chronic 3; H412 Acute Tox. 4; H302	
Crystalline silica	14808-60-7	1 - 5	Carc. 1A; H350 STOT RE 1; H372	* (see below)
Xylene	1330-20-7	1 - 5	Aquatic Acute 1; H400 Acute Tox. 4; H312 Acute Tox. 4; H332 Flam. Liq. 3; H226 Skin Irrit. 2; H315	
Propoxyethanol, 2-	2807-30-9	1 - 5	Acute Tox. 4; H312 Eye Irrit. 2; H319	
Cumene	98-82-8	1 - 5	Aquatic Acute 1; H400 Aquatic Chronic 2; H411 Asp. Tox. 1; H304 Acute Tox. 4; H302 Carc. 2; H351 Flam. Liq. 3; H226 STOT SE 3; H335, H336	
Titanium dioxide	13463-67-7	1 - 5	Carc. 2; H351	* (see below)
Carbon black	1333-86-4	0.1 - 1	Carc. 2; H351	* (see below)
Antimony trioxide	1309-64-4	0.1 - 1	Aquatic Acute 1; H400 Carc. 2; H351	* (see below)
Dibutyltin carboxylate	25168-21-2	0.1 - 1	Acute Tox. 4; H302 Eye Irrit. 2; H319 Muta. 2; H341 Repr. 1B; H360 Skin Irrit. 2; H315 STOT RE 1; H372	
Tri(nonylphenol)phosphite	26523-78-4	0.1 - 1	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Skin Sens. 1; H317	
Stoddard solvent	8052-41-3	0.1 - 1	Asp. Tox. 1; H304 Carc. 1B; H350 Muta. 1B; H340	

\*This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final state and is abraded or disturbed, dusting and exposure may occur. This product contains crystalline silica. As provided, and during normal use of this product, the crystalline silica is encapsulated within the product. As such, it is considered to be inextricably bound, and not readily available for exposure. Use of this product would not subject the user to the compliance requirements of 29CFR1910.1053 or 1926.1153. This product contains one or more substances that are hazardous only when present as an airborne dust. As provided, and during normal use of this product, this substance is encapsulated within the product. As such, it is considered to be inextricably bound, and not readily available for exposure.

Unlisted ingredients are not 'hazardous' per the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and/or are not found on the Canadian Workplace Hazardous Materials Information System ingredient disclosure list. See Section 8 for exposure limit guidelines.

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**SECTION 4: FIRST AID MEASURES**

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**IF IN EYES:** Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

**IF ON SKIN:** Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

**IF INHALED:** Remove to fresh air. Restore breathing, if necessary. Call a physician if symptoms persist.

**IF SWALLOWED:** Do not induce vomiting. Seek medical attention immediately. Drink two glasses of water or milk to dilute. Do not give anything by mouth to an unconscious person.

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**SECTION 5: FIRE FIGHTING MEASURES**

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<b>EXTINGUISHING MEDIA:</b>	Use water spray, foam, dry chemical or carbon dioxide.
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b>	Vapors are heavier than air and can travel to a source of ignition and flash back.
<b>SPECIAL FIRE FIGHTING INSTRUCTIONS:</b>	Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	Carbon dioxide, Carbon monoxide Chlorine containing gases Nitrogen containing gases Sulfur containing gases

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**SPECIAL PROTECTION:** Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Evaporation of volatile substances can lead to the displacement of air creating an environment that can cause asphyxiation.

**METHODS FOR CLEAN-UP:** Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds, or water systems.  
Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

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**SECTION 7: HANDLING AND STORAGE**

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**Handling:** Avoid contacting and avoid breathing the material. Use only in a well ventilated area.  
Keep away from heat, sparks and flame.  
Wash thoroughly after handling.  
Keep container closed.  
Emptied container retains vapor and product residue.  
Observe all labeled precautions until container is cleaned.  
Drums of this material should be grounded when pouring.  
**DO NOT CUT OR WELD ON OR NEAR THIS CONTAINER.**

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Storage: Store in a cool, dry, ventilated location. Keep away from heat and flame. Keep container closed.

Consult the Technical Data Sheet for specific storage instructions.

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

**EXPOSURE LIMITS:**

Chemical Name	Note	ACGIH EXPOSURE LIMITS	OSHA PEL
Crystalline silica	* (see below)	0.025 mg/m <sup>3</sup> TWA (respirable particulate matter)	((250)/(%SiO <sub>2</sub> + 5) mppcf TWA (respirable)); ((10)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA (respirable)); ((30)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA (total dust))
Xylene		100 ppm TWA 150 ppm STEL	100 ppm TWA; 435 mg/m <sup>3</sup> TWA
Cumene		50 ppm TWA	50 ppm TWA; 245 mg/m <sup>3</sup> TWA Skin absorption may potentially contribute to the overall exposure to this material.
Titanium dioxide	* (see below)	10 mg/m <sup>3</sup> TWA	15 mg/m <sup>3</sup> TWA (total dust)
Carbon black	* (see below)	3 mg/m <sup>3</sup> TWA (inhalable particulate matter)	3.5 mg/m <sup>3</sup> TWA

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**ENGINEERING CONTROL METHODS:**

- VENTILATION:** Use local exhaust ventilation or other engineering controls to minimize exposures.
- EYE PROTECTION:** Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.
- SKIN PROTECTION:** Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt. An apron may be appropriate if splashing can occur. Skin absorption may potentially contribute to the overall exposure to this material. Appropriate measures should be taken to prevent absorption so that the TLV is not invalidated.
- GLOVES:** Nitrile
- RESPIRATORY PROTECTION:** Respiratory protection may be required to avoid overexposure when handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. NIOSH approved air purifying respirator with organic vapor cartridge. Respirators should be selected by and used following requirements found in OSHA's respirator standard (29 CFR 1910.134).

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE:	Solid
COLOR:	Gray
ODOR:	Solvent
ODOR THRESHOLD:	Not established
pH:	Not established
FREEZING/MELTING POINT (deg. C):	Not established
BOILING POINT (deg. C):	Not established
FLASH POINT:	43°C; 109°F TCC
EVAPORATION RATE:	Not established
FLAMMABILITY:	Not a flammable solid or gas
UPPER EXPLOSIVE LIMIT (% in air):	Not established
LOWER EXPLOSIVE LIMIT (% in air):	Not established
VAPOR PRESSURE (mm Hg):	Not established
VAPOR DENSITY:	Not established
WEIGHT PER GALLON (lbs.):	10.60
SPECIFIC GRAVITY:	1.250
SOLUBILITY:	Not established
OCTANOL/WATER COEFFICIENT:	Not established
AUTOIGNITION TEMPERATURE:	Not established
DECOMPOSITION TEMPERATURE:	Not established
VISCOSITY:	No data available.
SOLIDS (% by weight):	59.0
VOC, weight percent	Not determined
VOC, U.S. EPA Method 24, less water and exempt solvents (theoretically determined)	495.5g/liter of material

**SECTION 10: STABILITY AND REACTIVITY**

STABILITY:	Stable under normal conditions.
CHEMICAL INCOMPATIBILITY:	Strong oxidizing agents
HAZARDOUS POLYMERIZATION:	Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS:	Chlorine containing gases Carbon monoxide, carbon dioxide Nitrogen containing gases Sulfur containing gases

**SECTION 11: TOXICOLOGICAL INFORMATION**
**Component Toxicity / Toxicology Data:**

COMPONENT NAME	LD50/LC50
Chlorinated paraffin	Oral LD50 Rat > 21,500 microliter/kg
Trimethylbenzene, 1,2,4-	Oral LD50 Rat 3,280 mg/kg Inhalation LC50 Rat 18.00 G/M3 Dermal LD50 Rabbit > 3,160.00 MG/KG (NO DEATHS OCCURRED)
Chlorinated paraffin	Oral LD50 Rat > 21,500 microliter/kg
Chlorinated polyethylene	Oral LD50 Rat > 5 g/kg
Trimethylbenzene, 1,3,5	Inhalation LC50 Rat 24.00 G/M3
Crystalline silica	Oral LD50 Rat 500 mg/kg
Xylene	Oral LD50 Rat 4,300 mg/kg

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Propoxyethanol, 2-	Oral LD50 Rat 3,089 mg/kg
Cumene	Oral LD50 Rat 1,400 mg/kg
Diethylbenzene	Oral LD50 Rat 2,050 mg/kg Dermal LD50 Rabbit > 5,000.00 MG/KG (NO DEATHS OCCURRED_HP)

**This product is a mixture. Unless noted, the information below is based on components.**

Skin corrosion / irritation: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Serious eye damage / irritation :Can cause moderate irritation, tearing and reddening.

Respiratory / skin sensitization: No data available.

Germ cell mutagenicity: May cause genetic defects.

Carcinogenicity: Contains a material that may cause cancer.

Reproductive toxicity: Contains a substance that is a probable reproductive hazard based on human studies.

Specific target organ toxicity-single exposure: No data available.

Respiratory irritation / Narcotic effects: No data available.

Specific target organ toxicity-repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Target organs potentially affected by exposure: Blood Central nervous system Kidneys Liver Lungs Immune system

Aspiration hazard: Not an aspiration hazard.

Medical Conditions Aggravated by Exposure: Blood disorders (like anemia), Liver disease, Kidney disease, Lung disease

**SECTION 12: ECOLOGICAL INFORMATION**

OVERVIEW:	No ecological information available for this product.
MOBILITY:	No data available.
PERSISTENCE:	No data available.
BIOACCUMULATION:	No data available.

**This product has not been tested for ecological effects. Relevant information for components is listed below:**

Component:	Ecotoxicity values:
Chlorinated paraffin	<b>Acute Toxicity (Fish):</b> 96 Hr LC50 Oncorhynchus mykiss: >0.0109 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 94.5 - 271 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: >0.1 mg/L [flow-through] <b>Acute Toxicity (Daphnia):</b> Not established <b>Acute Toxicity (Algae):</b> Not established
Aromatic petroleum distillate	<b>Acute Toxicity (Fish):</b> 96 Hr LC50 Oncorhynchus mykiss: 9.22 mg/L <b>Acute Toxicity (Daphnia):</b> 48 Hr EC50 Daphnia magna: 6.14 mg/L <b>Acute Toxicity (Algae):</b> Not established
Trimethylbenzene, 1,2,4-	<b>Acute Toxicity (Fish):</b> 96 Hr LC50 Pimephales promelas: 7.19 - 8.28 mg/L [flow-through] <b>Acute Toxicity (Daphnia):</b> 48 Hr EC50 Daphnia magna: 6.14 mg/L <b>Acute Toxicity (Algae):</b> Not established
Chlorinated paraffin	<b>Acute Toxicity (Fish):</b> 96 Hr LC50 Oncorhynchus mykiss: >0.0109 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 94.5 - 271 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: >0.1 mg/L [flow-through] <b>Acute Toxicity (Daphnia):</b> Not established <b>Acute Toxicity (Algae):</b> Not established
Trimethylbenzene, 1,3,5	<b>Acute Toxicity (Fish):</b> 96 Hr LC50 Pimephales promelas: 3.48 mg/L

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	<b>Acute Toxicity (Daphnia):</b> Not established <b>Acute Toxicity (Algae):</b> Not established
Xylene	<b>Acute Toxicity (Fish):</b> 96 Hr LC50 Pimephales promelas: 13.4 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 2.661 - 4.093 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 13.5 - 17.3 mg/L; 96 Hr LC50 Lepomis macrochirus: 13.1 - 16.5 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 19 mg/L; 96 Hr LC50 Lepomis macrochirus: 7.711 - 9.591 mg/L [static]; 96 Hr LC50 Pimephales promelas: 23.53 - 29.97 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 30.26 - 40.75 mg/L [static] <b>Acute Toxicity (Daphnia):</b> 48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 Gammarus lacustris: 0.6 mg/L <b>Acute Toxicity (Algae):</b> Not established
Cumene	<b>Acute Toxicity (Fish):</b> 96 Hr LC50 Pimephales promelas: 6.04 - 6.61 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 4.8 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 2.7 mg/L [semi-static]; 96 Hr LC50 Poecilia reticulata: 5.1 mg/L [semi-static] <b>Acute Toxicity (Daphnia):</b> 48 Hr EC50 Daphnia magna: 0.6 mg/L; 48 Hr EC50 Daphnia magna: 7.9 - 14.1 mg/L [Static] <b>Acute Toxicity (Algae):</b> 72 Hr EC50 Pseudokirchneriella subcapitata: 2.6 mg/L

**SECTION 13: DISPOSAL CONSIDERATIONS**

This product meets the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. It is ignitable waste class D001. Disposal via incineration is recommended. Consult your state, local, or provincial authorities for more restrictive requirements.

LAND DISPOSAL RESTRICTIONS: Xylenes (o-, m-, p- isomers)

**SECTION 14: TRANSPORT INFORMATION**

Consult Bill of Lading for transportation information.

US DOT: NOT REGULATED  
 IATA: UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (C14-C17 CHLORINATED PARAFFINS), 9, PGIII, (PACKAGES <5L NOT REGULATED, IATA 4.4, SP A197).  
 IMDG: UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (C14-C17 CHLORINATED PARAFFINS), 9, III, MARINE POLLUTANT (PACKAGES <5 L NOT REGULATED, IMDG 3.3 SP 969).

**SECTION 15: REGULATORY INFORMATION**
**INVENTORY STATUS**

U.S. EPA TSCA: This product is in compliance with the Toxic Substances Control Act's Inventory requirements.  
 CANADIAN CEPA DSL: The components of this product are included on the DSL or are exempt from DSL requirements.  
 EUROPEAN REACH: As a result of the introduction of REACH into Europe, this product cannot be imported into Europe unless the REACH requirements are met.  
 AUSTRALIA AICS: This product is in compliance with the Australian Inventory of Chemical Substances requirements.  
 KOREAN TCCL: This product is in compliance with the Korean Existing Chemicals List requirements.  
 PHILIPPINES: This product is in compliance with the Philippine Inventory of Chemicals and Chemical Substances requirements.  
 CHINA IECSC INVENTORY: This product is in compliance with the Inventory of Existing Chemical Substances in China (IECSC) requirements.

If you need more information about the inventory status of this product call 651-236-5858.

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This product may contain chemical substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us at [reg.request@hbfuller.com](mailto:reg.request@hbfuller.com) to request an export review.

This product contains a chemical substance that is subject to a Significant New Use Rule (SNUR) under Section 5(a)(2) of TSCA: 4-Nonylphenol, branched  
79 FR 59186, Oct 1, 2014 (proposed rule)

**FEDERAL REPORTING**

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**EPA SARA Title III Section 313**

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

Chemical Name	CAS#	%
1,2,4-Trimethylbenzene	95-63-6	10 - 30
Ammonia containing compounds	71011-27-3	1 - 5
Xylene (mixed isomers)	1330-20-7	1 - 5
Glycol ethers	2807-30-9	1 - 5
Cumene	98-82-8	1 - 5
Antimony compounds	1309-64-4	0.1 - 1

This includes anhydrous ammonia and aqueous ammonia from water dissociable ammonium salts and other sources; 10% of total aqueous ammonia is reportable.

**STATE REPORTING**

Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:

Unless listed below, this product does not contain known levels of any chemical known to the State of California to cause cancer or reproductive harm.

Chemical Name/List	CAS	Percent
Quartz (Carcinogen)	14808-60-7	1 - 5
Cumene (Carcinogen)	98-82-8	1 - 5
Titanium dioxide (Carcinogen)	13463-67-7	1 - 5
Carbon black (Carcinogen)	1333-86-4	0.1 - 1
Antimony(III) oxide (Carcinogen)	1309-64-4	0.1 - 1
Vinyl trichloride (Carcinogen)	79-00-5	0.1 - 1
ethylbenzene (Carcinogen)	100-41-4	0.001 - 0.01
Lead compounds (Carcinogen)		< 10 ppm
Arsenic compounds (inorganic) (Carcinogen)		< 10 ppm
Benzene (Carcinogen)	71-43-2	< 10 ppm
Benzene (Developmental toxin)	71-43-2	< 10 ppm
Toluene (Developmental toxin)	108-88-3	< 10 ppm
Benzene, methyl- (Female reproductive toxin)	108-88-3	< 10 ppm
Benzene (Male reproductive toxin)	71-43-2	< 10 ppm

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**Substances of Very High Concern (SVHC) Content:**

Unless listed below, this product does not contain SVHC's at 0.1% or greater, as of the version date of this SDS.

**SECTION 16: OTHER INFORMATION**

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SDS VERSION DATE: 07-18-2017

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

HMIS RATING: HEALTH -- 2 FLAMMABILITY -- 2 REACTIVITY -- 0

See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

Prepared by: The Global Regulatory Department

Phone: 651-236-5842

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to H.B. Fuller Construction Products, Inc. from its suppliers, and because H.B. Fuller Construction Products, Inc. has no control over the conditions of handling and use, H.B. Fuller Construction Products, Inc. makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and H.B. Fuller Construction Products, Inc. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Construction Products, Inc. products to comply with all applicable federal, state and local laws and regulations.