

SAFETY DATA SHEET

REVISION DATE: 02-08-2018

SUPERSEDES: 03-27-2017

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

PRODUCT: FOSTER 60-91
PRODUCT DESCRIPTION: Coating
INTENDED USE: Coating
PRODUCT IDENTIFIER: 802357PM

COMPANY INFORMATION

H.B. Fuller Company
1200 Willow Lake Boulevard
Vadnais Heights, MN 55110
Telephone: 888-423-8553

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; Reproductive Toxicity Category 1B; Hazardous to the aquatic environment - Acute Category 1; Skin Corrosion/Irritation Category 2; Serious Eye Damage/Eye Irritation Category 2; Carcinogenicity Category 2; Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2; Hazardous to the aquatic environment - Chronic Category 2; Flammable Liquid Category 3; Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3; Additional category for effects on or via lactation

GHS Hazard Phrases: Flammable liquid and vapour.; 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.; Suspected of causing cancer.; May damage fertility or the unborn child.; May cause harm to breast-fed children.; 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. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact during pregnancy/while nursing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. 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.

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First Aid Measures:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. 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 reuse. In case of fire: Use water spray, foam, dry chemical or carbon dioxide to extinguish. Collect spillage.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. 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	
Trimethylbenzene, 1,2,4-	95-63-6	10 - 30	Aquatic Chronic 2; H411 Acute Tox. 4; H332 Eye Irrit. 2; H319 Flam. Liq. 3; H226 Skin Irrit. 2; H315 STOT SE 3; H335, H336	
Titanium dioxide	13463-67-7	5 - 10	Carc. 2; H351	* (see below)
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)
Propoxyethanol, 2-	2807-30-9	1 - 5	Acute Tox. 4; H312 Eye Irrit. 2; H319	
Xylene: CAS:1330-20-7	1330-20-7	0.1 - 1	Acute Tox. 4; H312 Acute Tox. 4; H332 Flam. Liq. 3; H226 Skin Irrit. 2; H315	
Cumene	98-82-8	0.1 - 1	Aquatic Chronic 2; H411 Asp. Tox. 1; H304 Acute Tox. 4; H302 Carc. 2; H351 Flam. Liq. 3; H226 STOT SE 3; H335, H336	
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 Chronic 1; H410 Skin Sens. 1; H317	
Antimony trioxide	1309-64-4	0.1 - 1	Carc. 2; H351	* (see below)

*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 titanium dioxide, which is hazardous 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. 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

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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.

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.

SECTION 4: FIRST AID MEASURES

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.

SECTION 5: FIRE FIGHTING MEASURES

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

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:	Scrape up and place in disposal container. 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

SECTION 7: HANDLING AND STORAGE

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.
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Drums of this material should be grounded when pouring.
DO NOT CUT OR WELD ON OR NEAR THIS CONTAINER.

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
Titanium dioxide	* (see below)	10 mg/m ³ TWA	15 mg/m ³ TWA (total dust)
Crystalline silica	* (see below)	0.025 mg/m ³ TWA (respirable particulate matter)	((250)/(%SiO ₂ + 5) mppcf TWA (respirable)); ((10)/(%SiO ₂ + 2) mg/m ³ TWA (respirable)); ((30)/(%SiO ₂ + 2) mg/m ³ TWA (total dust))
Cumene		50 ppm TWA	50 ppm TWA; 245 mg/m ³ TWA Skin absorption may potentially contribute to the overall exposure to this material.

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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).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Semi-solid
COLOR: Gray
ODOR: Solvent

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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):	59.2
VOC, weight percent	40.40
VOC, U.S. EPA Method 24, less water and exempt solvents (theoretically determined)	513g/liter of material

SECTION 10: STABILITY AND REACTIVITY

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

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

COMPONENT NAME	LD50/LC50
Propoxyethanol, 2-	Oral LD50 Rat 3,089 mg/kg INHALATION LC50-7H (VAPOR) Rat 1,530.00 ppm/4H Dermal LD50 Rabbit 870.00 mg/kg

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: No data available.

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

Respiratory irritation / Narcotic effects: No data available.

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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:
Aromatic petroleum distillate	Acute Toxicity (Fish): LC50 96 h Oncorhynchus mykiss 9.22 mg/L (IUCLID) Acute Toxicity (Daphnia): EC50 48 h Daphnia magna 6.14 mg/L (IUCLID) Acute Toxicity (Algae): Not established
Chlorinated paraffin	Acute Toxicity (Fish): 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] Acute Toxicity (Daphnia): Not established Acute Toxicity (Algae): Not established
Trimethylbenzene, 1,2,4-	Acute Toxicity (Fish): LC50 96 h Pimephales promelas 7.19 - 8.28 mg/L [flow-through] (EPA) Acute Toxicity (Daphnia): EC50 48 h Daphnia magna 6.14 mg/L (IUCLID) Acute Toxicity (Algae): Not established
Chlorinated paraffin	Acute Toxicity (Fish): 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] Acute Toxicity (Daphnia): Not established Acute Toxicity (Algae): Not established

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.

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, MARINE POLLUTANT (PACKAGES <5 L 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

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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.

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 to request an export review.

This product contains a chemical substance that is 4-Nonylphenol, branched
subject to a Significant New Use Rule (SNUR)
under Section 5(a)(2) of TSCA: 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
Glycol ethers	2807-30-9	1 - 5
Cumene	98-82-8	0.1 - 1
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:

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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
Titanium dioxide (Carcinogen)	13463-67-7	5 - 10
Quartz (Carcinogen)	14808-60-7	1 - 5
Cumene (Carcinogen)	98-82-8	0.1 - 1
Antimony(III) oxide (Carcinogen)	1309-64-4	0.1 - 1

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

SDS VERSION DATE: 02-08-2018

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

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