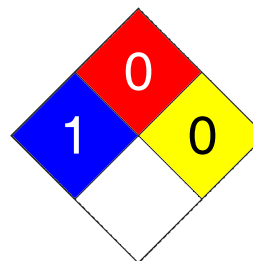


1. Product and Company Identification

Product Name Flextuff™ 2808
CAS # Mixture
Product use Furniture application
Manufacturer Noble Polymers, LLC.
 4855 37th Street SE
 Grand Rapids, MI 49512 US
 Phone: (616) 975-4987
 Emergency Phone: (616) 975-4734 (after hours)
 Safety & Env. Manager: (616) 975-4716

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 1
Flammability	0
Physical Hazard	0
Personal Protection	B



2. Hazards Identification

Emergency overview WARNING
 EYE AND SKIN IRRITANT.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes May cause irritation.

Skin May cause irritation. Contact with molten material may cause thermal burns.

Inhalation Harmful if inhaled. Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

Ingestion Not a normal route of exposure. May cause stomach distress, nausea or vomiting.

Target organs Eyes. Respiratory system. Skin.

Chronic effects Prolonged or repeated exposure to fine airborne crystalline silica dust may cause severe scarring of the lungs, a disease called silicosis. Early symptoms of silicosis include cough, mucous production and shortness of breath upon exertion. Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Limestone	1317-65-3	20 - 40
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	10 - 20
Crystalline silica	14808-60-7	0.1 - 1

4. First Aid Measures

First aid procedures

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists. In case of contact with molten material, obtain medical attention for treatment.

Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Ingestion	Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.
Notes to physician	Symptoms may be delayed.
General advice	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties	Not flammable by OSHA criteria.
Extinguishing media	
Suitable extinguishing media	Dry chemical, CO2, water spray or regular foam.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Not available
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Methods for containment	Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

7. Handling and Storage

Handling	Use good industrial hygiene practices in handling this material.
Storage	Keep out of reach of children. Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s)	Exposure Limits
Crystalline silica	ACGIH-TLV TWA: 0.1 mg/m ³ OSHA-PEL TWA: 0.1 mg/m ³
Distillates (petroleum), hydrotreated heavy naphthenic	ACGIH-TLV Not established OSHA-PEL Not established
Limestone	ACGIH-TLV TWA: 5 mg/m ³ OSHA-PEL TWA: 15 mg/m ³

Engineering controls	Use only under good ventilation conditions or with respiratory protection.
Personal protective equipment	
Eye / face protection	Wear safety glasses with side shields.
Hand protection	Temperature resistant gloves shall be used when handling molten material.
Skin and body protection	As required by employer code.
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical & Chemical Properties

Appearance	Pellet
Color	Natural color.
Form	Solid
Odor	Not available
Odor threshold	Not available
Physical state	Solid
pH	Not available
Freezing point	Not available
Boiling point	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability limits in air, lower, % by volume	Not applicable
Flammability limits in air, upper, % by volume	Not applicable
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1.13 - 1.18
Octanol/water coefficient	Not available
Solubility (H₂O)	Insoluble
Auto-ignition temperature	Not available

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.

Incompatible materials	Acids. Oxidizers.
Hazardous decomposition products	Oxides of carbon. May include and are not limited to:
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Crystalline silica	Not available
Distillates (petroleum), hydrotreated heavy naphthenic	2.18 mg/l/4h rat
Limestone	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Crystalline silica	500 mg/kg rat
Distillates (petroleum), hydrotreated heavy naphthenic	5000 mg/kg rat
Limestone	6450 mg/kg rat

Effects of acute exposure

Eye	May cause irritation.
Skin	May cause irritation. Contact with molten material may cause thermal burns.
Inhalation	Harmful if inhaled. Dusts of this product may cause irritation of the nose, throat, and respiratory tract.
Ingestion	Not a normal route of exposure. May cause stomach distress, nausea or vomiting.
Sensitization	Non-hazardous by OSHA criteria.
Chronic effects	Prolonged or repeated exposure to fine airborne crystalline silica dust may cause severe scarring of the lungs, a disease called silicosis. Early symptoms of silicosis include cough, mucous production and shortness of breath upon exertion.
Carcinogenicity	Hazardous by OSHA criteria. Contains a potential carcinogen.

IARC - Group 1 (Carcinogenic to Humans)

Crystalline silica	14808-60-7	Monograph 68 [1997] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources)
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NTP (National Toxicology Program) - Report on Carcinogens - Known Human Carcinogens

Crystalline silica	14808-60-7	Known Human Carcinogen
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Mutagenicity	Non-hazardous by OSHA criteria.
Reproductive effects	Non-hazardous by OSHA criteria.
Teratogenicity	Non-hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.
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Ecotoxicity - Freshwater Fish Species Data

Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	96 Hr LC50 Pimephales promelas: >5000 mg/L
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Ecotoxicity - Water Flea Data

Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	48 Hr EC50 Daphnia magna: >1000 mg/L
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Environmental effects	Not available
Aquatic toxicity	Not available
Persistence / degradability	Not available
Bioaccumulation / accumulation	Not available
Partition coefficient	Not available
Mobility in environmental media	Not available
Chemical fate information	Not available

13. Disposal Considerations

Waste codes	Not available
Disposal instructions	Review federal, provincial, and local government requirements prior to disposal.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
CERCLA/SARA Hazardous Substances - Not applicable.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

Clean Water Act (CWA) Not available

Safe Drinking Water Act (SDWA) Not available

Drug Enforcement Agency (DEA) Not available

Food and Drug Administration (FDA) Not available

State regulations WARNING: This product contains a chemical known to the State of California to cause cancer.

U.S. - California - Proposition 65 - Carcinogens List

Crystalline silica 14808-60-7 carcinogen, initial date 10/1/88 (airborne particles of respirable size)

U.S. - Massachusetts - Right To Know List

Crystalline silica 14808-60-7 Carcinogen; Extraordinarily hazardous

Limestone 1317-65-3 Present

U.S. - Minnesota - Hazardous Substance List

Crystalline silica 14808-60-7 Carcinogen

Limestone 1317-65-3 Present (dust)

U.S. - Rhode Island - Hazardous Substance List

Crystalline silica 14808-60-7 Toxic (dust)

Limestone 1317-65-3 Toxic

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Prepared by

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