

**SAFETY DATA SHEET****Foster® 81-84NH A**

Version 1.1

Revision Date 12/05/2023

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : Foster® 81-84NH A  
Product code : 100000013762

**Manufacturer or supplier's details**

Company : H.B. Fuller Company  
Address : 1200 Willow Lake Boulevard  
Vadnais Heights, MN 55110  
Telephone : 1-888-423-8553

Medical Emergency Phone Number (24 Hours): 1-888-853-1758

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

**Recommended use of the chemical and restrictions on use**

Recommended use : Polyol  
Restrictions on use : For industrial use only.

**SECTION 2. HAZARDS IDENTIFICATION****Emergency Overview**

Appearance	liquid
Color	beige
Odor	oily

**GHS Classification**

Eye irritation : Category 2A

**GHS label elements**

Hazard pictograms :



Signal Word : Warning

**Hazard Statements:**

H319 Causes serious eye irritation.

**Precautionary Statements:****Prevention:** P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection.**Response:** P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation

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persists: Get medical advice/ attention.

**Potential Health Effects****Carcinogenicity:****IARC**

Group 1: Carcinogenic to humans

Quartz (SiO<sub>2</sub>) 14808-60-7**OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**

Known to be human carcinogen

Quartz (SiO<sub>2</sub>) 14808-60-7**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous ingredients**

Chemical name	CAS-No.	Concentration [%]
kaolin	1332-58-7	20 - 30
Limestone	1317-65-3	10 - 20
Calcium carbonate	471-34-1	5 - 10
Mica	12001-26-2	1 - 5
1,3-Isobenzofurandione, polymer with 2,2'-oxybis[ethanol]	32472-85-8	1 - 5
Quartz (SiO <sub>2</sub> )	14808-60-7	0.1 - 1

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

- General advice : Show this material safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off with soap and water.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If swallowed : Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this SDS.
- Most important symptoms and effects, both acute and delayed : Causes serious eye irritation.

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**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.

Methods and materials for containment and cleaning up : Scrape up.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Shovel into suitable container for disposal.

**SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : No special precautions are needed in handling this material.

Conditions for safe storage : Keep in a dry, cool place.

Materials to avoid : No special restrictions on storage with other products.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Ingredients with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
kaolin	1332-58-7	TWA (Respirable particulate matter)	2 mg/m <sup>3</sup>	ACGIH
		TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Total)	10 mg/m <sup>3</sup>	OSHA P0

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		TWA (Respirable fraction)	5 mg/m <sup>3</sup>	OSHA P0
		TWA (Total dust)	10 mg/m <sup>3</sup>	OSHA P0
		TWA (respirable dust fraction)	5 mg/m <sup>3</sup>	OSHA P0
Limestone	1317-65-3	TWA (Respirable)	5 mg/m <sup>3</sup>	NIOSH REL
		TWA (total)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (Respirable)	5 mg/m <sup>3</sup>	NIOSH REL
		TWA (total)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (Respirable)	5 mg/m <sup>3</sup>	NIOSH REL
		TWA (total)	10 mg/m <sup>3</sup>	NIOSH REL
		TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Total)	15 mg/m <sup>3</sup>	OSHA P0
		TWA (Respirable fraction)	5 mg/m <sup>3</sup>	OSHA P0
		TWA (Total dust)	15 mg/m <sup>3</sup>	OSHA P0
		TWA (respirable dust fraction)	5 mg/m <sup>3</sup>	OSHA P0
Calcium carbonate	471-34-1	PEL (Total dust)	10 mg/m <sup>3</sup>	CAL PEL
		PEL (respirable dust fraction)	5 mg/m <sup>3</sup>	CAL PEL
		TWA (Respirable)	5 mg/m <sup>3</sup>	NIOSH REL
		TWA (total)	10 mg/m <sup>3</sup>	NIOSH REL
Mica	12001-26-2	TWA (Respirable particulate matter)	0.1 mg/m <sup>3</sup>	ACGIH
		TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable fraction)	3 mg/m <sup>3</sup>	OSHA P0
		TWA (Respirable)	3 mg/m <sup>3</sup>	NIOSH REL

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Quartz (SiO <sub>2</sub> )	14808-60-7	TWA (Respirable particulate matter)	0.025 mg/m <sup>3</sup>	ACGIH
		TWA (total dust)	30 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2	OSHA Z-3
		TWA (respirable)	10 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO <sub>2</sub> +5	OSHA Z-3
		TWA (Respirable fraction)	0.1 mg/m <sup>3</sup>	OSHA P0
		TWA (Respirable dust)	0.05 mg/m <sup>3</sup>	OSHA Z-1
		PEL (Respirable dust)	0.05 mg/m <sup>3</sup>	CAL PEL
		TWA (respirable dust fraction)	0.1 mg/m <sup>3</sup>	OSHA P0

**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally required.  
In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection  
Material : Nitrile rubber

Eye protection : Safety glasses

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid  
 Color : beige  
 Odor : oily  
 Odor Threshold : no data available  
 pH : Not applicable  
 Melting point/freezing point : is not determined  
 Initial boiling point and boiling range : is not determined  
 Flash point : Not applicable  
 Evaporation rate : is not determined

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Flammability (solid, gas)	: Not classified as a flammability hazard
Upper explosion limit	: Upper flammability limit Not applicable
Lower explosion limit	: Lower flammability limit Not applicable
Vapor pressure	: is not determined
Density	: 12.1 lb/gal
Solubility(ies)	
Water solubility	: dispersible
Partition coefficient: n-octanol/water	: no data available
Autoignition temperature	: is not determined
Viscosity	
Viscosity, kinematic	: is not determined
VOC, less water, in g/l	: 20

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**SECTION 10. STABILITY AND REACTIVITY**

Chemical stability	: The product is chemically stable.
Possibility of hazardous reactions	: Hazardous polymerization does not occur.
Hazardous decomposition products	: Stable under normal conditions.

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

Acute oral toxicity	: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method
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**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

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No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**STOT-single exposure**

No data available

**STOT-repeated exposure**

No data available

**Aspiration toxicity**

No data available

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential****Components:****1,3-Isobenzofurandione, polymer with 2,2'-oxybis[ethanol] :**

Partition coefficient: n- : log Pow: 0.9 - 1.9 (25 °C)

octanol/water pH: 2.3

GLP: yes

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities

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for more restrictive requirements.

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**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Domestic regulation****49 CFR**

Not regulated as a dangerous good

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**SECTION 15. REGULATORY INFORMATION****SARA 311/312 Hazards** : Serious eye damage or eye irritation**SARA 302** : This material does not contain any components with a section 302 EHS TPQ.**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

**US State Regulations****California Prop 65** Please contact Supplier for more information.**The ingredients of this product are reported in the following inventories:****TSCA** All substances listed as active on the TSCA inventory



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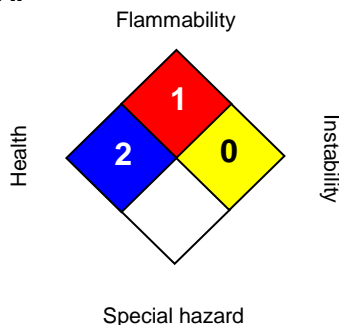
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<b>AIIC</b>	On the inventory, or in compliance with the inventory
<b>DSL</b>	All components of this product are on the Canadian DSL
<b>KECI</b>	On the inventory, or in compliance with the inventory
<b>PICCS</b>	On the inventory, or in compliance with the inventory
<b>IECSC</b>	On the inventory, or in compliance with the inventory
<b>Inventories Legend</b>	TSCA (USA), DSL (Canada), REACH(Europe), AIIC (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)

**SECTION 16. OTHER INFORMATION**

Prepared by: Global Regulatory Office - phone: 1-651-236-5842 - email: msds.request@hbfuller.com

**Further information**
**NFPA:**

**HMIS III:**

<b>HEALTH</b>	<b>2/</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 =Slight,  
 2 = Moderate, 3 = High  
 4 = Extreme, \* = Chronic

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