PolyOne

## MATERIAL SAFETY DATA SHEET BUTTERSCOTH

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1.	INOD	UCT AND COMPANY IDENTIFICATION
POLYONE CORPORATI		
8155 Cobb Center Drive,	Kennes	aw, GA 30152
<b>—</b> 1 1		
Telephone	:	1 (440) 930-1000 or 1 (866) POLYONE
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	BUTTERSCOTH
Product code	:	FO20027851
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
Iron oxide	1309-37-1	1 - 5
Titanium dioxide	13463-67-7	5 - 10

#### **3. HAZARDS IDENTIFICATION**

#### **EMERGENCY OVERVIEW**

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions.

#### POTENTIAL HEALTH EFFECTS

<b>Routes of Exposure:</b>	: Inhalation, Skin contact, Ingestion
Acute exposure	
Inhalation	: Inhalation of airborne droplets may cause irritation of the respiratory tract.
Ingestion	: May be harmful if swallowed.
Eyes	: May cause eye and skin irritation.
Skin	: Experience shows no unusual dermatitis hazard from routine handling.
Chronic exposure	: Refer to Section 11 for Toxicological Information.

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Medical Conditions Aggravated by Exposure:	: None known.
	4. FIRST AID MEASURES
Inhalation	: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases of doubt seek medical advice.
Ingestion	: Do not induce vomiting without medical advice. Seek medical attention if necessary.
Eyes	: Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, seek medical attention.
Skin	: Wash off with soap and plenty of water. If skin irritation persists seek medical attention.
	5. FIREFIGHTING MEASURES
Flash point	: no data available
Flammable Limits Upper explosion limit Lower explosion limit Auto-ignition temperature Suitable extinguishing media	<ul> <li>no data available</li> <li>no data available</li> <li>Not applicable</li> <li>Carbon dioxide blanket, Water spray, Dry powder, Foam.</li> </ul>
Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	<ul> <li>Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.</li> <li>Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.</li> </ul>
	6. ACCIDENTAL RELEASE MEASURES
Personal precautions	<ul> <li>Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.</li> </ul>
Environmental precautions	: The product should not be allowed to enter drains, water courses or the soil. Should not be released into the environment.
Methods for cleaning up	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Package all material in appropriate container for disposal.
	7. HANDLING AND STORAGE
Handling	: Heat only in areas with appropriate exhaust ventilation. Prolonged heating may result in product degradation.

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Storage

: Keep containers dry and tightly closed to avoid moisture absorption and contamination. Store in a cool dry place.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection	:	Under normal handling conditions a respirator may not be required.
Eye/Face Protection	:	Safety glasses with side-shields
Hand protection	:	Protective gloves
Skin and body protection	:	Long sleeved clothing
Additional Protective Measures	:	Safety shoes
General Hygiene Considerations	:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Engineering measures	:	Heat only in areas with appropriate exhaust ventilation. Provide appropriate exhaust ventilation at machinery.

Exposure limit(s)

Components	Value	Exposure time	Exposure type	List:
Iron oxide	10 mg/m3	PEL:	Fume.	OSHA Z1
	5 mg/m3	Time Weighted Average (TWA):	as Fe	MX OEL
	10 mg/m3	Short Term Exposure Limit (STEL):	as Fe	MX OEL
	5 mg/m3	Time Weighted Average (TWA):	Respirable fraction.	ACGIH
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):		ACGIH
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	10 mg/m3	Time Weighted Average (TWA):	Total dust.	OSHA Z1A
	10 mg/m3	Time Weighted Average (TWA):	as Ti	MX OEL
	20 mg/m3	Short Term Exposure Limit (STEL):	as Ti	MX OEL

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form Appearance : liquid
: liquid, Viscous liquid dispersion
: TAN

Evapouration rate Specific Gravity Bulk density Not establishedNot determined

: Not applicable

Colour

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Odour Melting point/range Boiling Point: Water solubility	<ul><li>very faint</li><li>not applicable</li><li>not applicable</li><li>immiscible</li></ul>	Vapour pressure Vapour density pH	<ul><li>Not determined</li><li>Heavier than air.</li><li>Not determined</li></ul>
	10. STABILITY AN	D REACTIVITY	
Stability	: The product is stab	le if stored and handled as	prescribed.
Hazardous Polymerization	: Will not occur.		
Conditions to avoid	: Keep away from or decomposition, do	xidizing agents and open f not overheat.	lame. To avoid thermal
Incompatible Materials	: Incompatible with	strong acids and oxidizing	gagents.
Hazardous decomposition products		O2), carbon monoxide (CC dous materials, and smoke	

### **11. TOXICOLOGICAL INFORMATION**

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

#### Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
1309-37-1	Iron oxide	Systemic effects	Respiratory system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.

Carcinogenicity

This product contains the following components which, in their pure form, have the following carcinogenicity data:

CAS-No.	Chemical Name	OSHA	IARC	NTP
13463-67-7 Titanium dioxide		no	2B	no

IARC Carcinogen Classifications:

1 - The component is carcinogenic to humans.

2A - The component is probably carcinogenic to humans.

2B - The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

1 - The component is known to be a human carcinogen.

2 - The component is reasonably anticipated to be a human carcinogen.

#### **12. ECOLOGICAL INFORMATION**

Persistence and degradability

: Not readily biodegradable.

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whole. Bioaccumulation Potential : no data available Additional advice : no data available           Additional advice         : no data available           Additional advice         : no data available           III. DISPOSAL CONSIDERATIONS         : Where possible recycling is preferred to disposal or incineration. generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.           Contaminated packaging         : Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.           Contaminated packaging         : Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.           U.S. DOT Classification         : Refer to specific regulation.           ICAO/IATA         : Refer to specific regulation.           IMO/IMDG (maritime)         : Refer to specific regulation.           US Regulations:         : Classified as hazardous based on components.           TSCA Status         : All components of this product are listed on or exempt from the TSCA Inventory.           US.EPA CERCLA Hazardous Substances (40 CFR 302) not applicable	ion Number 1.1 sion Date 03/27/2014	Page 5 Print Date 4/3/2
Additional advice       : no data available         13. DISPOSAL CONSIDERATIONS         Product       : Where possible recycling is preferred to disposal or incineration. generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.         Contaminated packaging       : Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.         Contaminated packaging       : Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.         U.S. DOT Classification       : Refer to specific regulation.         ICAO/IATA       : Refer to specific regulation.         IMO/IMDG (maritime)       : Refer to specific regulation.         INS Regulations:       OSHA Status       : Classified as hazardous based on components.         TSCA Status       : All components of this product are listed on or exempt from the TSCA Inventory.         US. EPA CERCLA Hazardous Substances (40 CFR 302) not applicable       .         Mot applicable       : WARNING! This product contains a chemical known to the State California Proposition	Environmental Toxicity	5
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SARA Title III Section 302 Extremely Hazardous Substance	_	
	SARA Title III Section 302 H	Extremely Hazardous Substance
	SARA THE III Section 302 I	Auchicity Hazardous Substance

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	dentified under this section, this product is Not Applicable under this regulation
SARA Title III Section 313 To	xic Chemicals:
Unless specific chemicals are i	dentified under this section, this product is Not Applicable under this regulation
Canadian Regulations:	
National Pollutant Relea	ase Inventory (NPRI)
not applicable	
WHMIS Classification	: D2A
WHMIS Ingredient Dis	closure List
CAS-No. 1309-37-1	
DSL	: All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.
National Inventories:	
Australia AICS	: Listed
China IECS	: Listed
Europe EINECS	: Listed
Japan ENCS	: Listed
Korea KECI	: Listed
Philippines PICCS	: Listed
	16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.