MATERIAL SAFETY DATA SHEET X LB-TPU 4419-001-D

Version Number 1.0 Revision Date 11/21/2013

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone Emergency telephone number	:	1 (440) 930-1000 or 1 (866) POLYONE CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	X LB-TPU 4419-001-D
Product code	:	EM10031014
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
Glass, oxide	65997-17-3	1 - 5
Molybdenum (IV) sulfide	1317-33-5	1 - 5

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors 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.

POTENTIAL HEALTH EFFECTS

Routes of Exposure:	: Inhalation, Ingestion, Skin contact			
Acute exposure				
Inhalation Ingestion Eyes Skin	 Particulates, like other inert materials can be mechanically irritating. May be harmful if swallowed. Particulates, like other inert materials can be mechanically irritating. 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 o doubt seek medical advice.
Ingestion	: Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice.
Eyes	: Rinse immediately with plenty of water, also under the eyelids, 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	: not applicable
Flammable Limits Upper explosion limit Lower explosion limit Auto-ignition temperature Suitable extinguishing media Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	 not applicable not applicable not applicable Carbon dioxide blanket, Water spray, Dry powder, Foam. Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.
	6. ACCIDENTAL RELEASE MEASURES
Personal precautions	: Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.
Environmental precautions	: Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.
Methods for cleaning up	: Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal.
	7. HANDLING AND STORAGE
Handling	: Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.

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	: Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place.				
8. EXI	POSURE CONTR	ROLS/PERSONAL PROTECTION			
Respiratory protection	: No personal respiratory protective equipment normally required.				
Eye/Face Protection	: Safety glas	: Safety glasses with side-shields			
Hand protection	: Protective	Protective gloves			
Skin and body protection	: Long sleev	Long sleeved clothing			
Additional Protective Measures	: Safety shoe	Safety shoes			
General Hygiene Considerations		accordance with good industrial hygiene and safety 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.				
9.	PHYSICAL ANI	D CHEMICAL PROPERTIES			
Form Appearance Colour Odour	 solid pellets, Slabs NO PIGMENT very faint Not determine not applicable 	VTBulk density: Not establishedVapour pressure: not applicableedVapour density: not applicable			
Melting point/range Boiling Point: Water solubility	: insoluble				
Boiling Point:	: insoluble	ITY AND REACTIVITY			
Boiling Point:	: insoluble	ITY AND REACTIVITY act is stable if stored and handled as prescribed.			
Boiling Point: Water solubility	: insoluble	act is stable if stored and handled as prescribed.			
Boiling Point: Water solubility Stability	: insoluble 10. STABILI : The product : Will not occ	act is stable if stored and handled as prescribed.			
Boiling Point: Water solubility Stability Hazardous Polymerization	 insoluble 10. STABILT The product Will not oct To avoid the 	act is stable if stored and handled as prescribed.			
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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:

	Chemical Name	Effect	Target Organ			
1317-33-5	Molybdenum (IV) sulfide	Irritant	Eyes, Skin.			
	12. ECOLOGICA	L INFORMATIO)N			
Persistence and degrada	bility : Not readily bio	degradable.				
Environmental Toxicity	xicity : Chemicals are not readily available as they are bound within the polymer matrix.					
Bioaccumulation Potential : Chemicals are not readily available as they polymer matrix.		e as they are bound within the				
Additional advice : not applic		pplicable				
	13. DISPOSAL C	ONSIDERATION	VS			
Product	possible recycli generator of wa classification, t	ing is preferred to c iste material has the ransportation and d	ne product can be recycled. When lisposal or incineration. The e responsibility for proper waste isposal in accordance with and local regulations.			
Contaminated packagin	material has the transportation a	: 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.				
	14. TRANSPOR	T INFORMATIO	N			
U.S. DOT Classification	n : Not regulated f	or transportation.				
ICAO/IATA	: Refer to specifi	c regulation.				
IMO/IMDG (maritime) : Refer to spec		r to specific regulation.				
	15. REGULATO	RY INFORMATIO	DN			
US Regulations:						
OSHA Status	: Classified as ha	zardous based on c	components.			
	: All component	s of this product ar	e listed on or exempt from the			
TSCA Status		· · · · · ·				

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TSCA Inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

California Proposition : Not applicable 65

SARA Title III Section 302 Extremely Hazardous Substance

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

SARA Title III Section 313 Toxic Chemicals:

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

not applicable

WHMIS Classification	:	Not controlled.
DSL	:	DSL status has not been determined. Quantity use in Canada may be restricted by regulations.

National Inventories:

Australia AICS	:	Not determined
China IECS	:	Not determined
Europe EINECS	:	Not determined
Japan ENCS	:	Not determined
Korea KECI	:	Not determined
Philippines PICCS	:	Not determined

16. OTHER INFORMATION

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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.