PolvOne

MATERIAL SAFETY DATA SHEET X GF 1213 32 NATURAL MS HS

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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 GF 1213 32 NATURAL MS HS
Product code :	EM10031125
Chemical Name :	Mixture
CAS-No. :	Mixture
Product Use :	Industrial Applications

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
Molybdenum (IV) sulfide	1317-33-5	1 - 5
Glass, oxide	65997-17-3	30 - 60
Titanium dioxide	13463-67-7	0.1 - 1

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 or 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 Storage and contamination. Keep in a dry, cool place. 8. EXPOSURE CONTROLS/PERSONAL PROTECTION : No personal respiratory protective equipment normally required. Respiratory protection **Eye/Face Protection** Safety glasses with side-shields : Hand protection Protective gloves : Skin and body protection : Long sleeved clothing Additional Protective : Safety shoes Measures General Hygiene : Handle in accordance with good industrial hygiene and safety Considerations practice. Wash hands before breaks and at the end of workday. : Heat only in areas with appropriate exhaust ventilation. Provide Engineering measures appropriate exhaust ventilation at machinery. Exposure limit(s)

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

9. PHYSICAL AND CHEMICAL PROPERTIES				
Form Appearance Colour Odour Melting point/range Boiling Point: Water solubility	 solid pellets, Slabs NO PIGMENT very faint Not determined not applicable insoluble 	Evapouration rate Specific Gravity Bulk density Vapour pressure Vapour density pH	 Not applicable Not determined Not established not applicable not applicable not applicable not applicable 	
10. STABILITY AND REACTIVITY				
Stability	: The product is stat	ble if stored and handled as	prescribed.	

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Hazardous Polymerization	:	Will not occur.
Conditions to avoid	:	To avoid thermal decomposition, do not overheat.
Incompatible Materials	:	Strong acids, oxidizing and reducing agents
Hazardous decomposition products	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.

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
1317-33-5	Molybdenum (IV) sulfide	Irritant	Eyes, Skin.
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
13463-67-7Titanium 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.

	. ECOLOGICAL INFORMATION	
Persistence and degradability	Not readily biodegradable.	
Environmental Toxicity	Chemicals are not readily available as they are bound we polymer matrix.	thin the
Bioaccumulation Potential	Chemicals are not readily available as they are bound we polymer matrix.	thin the
Additional advice	not applicable	

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Product	: Like most thermoplastic plastics the product can be recycled. Where possible recycling is preferred to disposal or incineration. 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.
	14. TRANSPORT INFORMATION
U.S. DOT Classification	: Not regulated for transportation.
ICAO/IATA	: Refer to specific regulation.
IMO/IMDG (maritime)	: Refer to specific regulation.
	15. REGULATORY INFORMATION
US 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 Hazardou	is Substances (40 CFR 302)
not applicable	
California Propositior 65	n : Not applicable
SARA Title III Section 302 E	Extremely Hazardous Substance
Unless specific chemicals are	identified under this section, this product is Not Applicable under this regula
SARA Title III Section 313 T	`oxic Chemicals:

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Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation				
Canadian Regulations:				
National Pollutant Releas	se Iı	iventory (NPRI)		
not applicable				
WHMIS Classification	:	D2A		
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		

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.