

MATERIAL SAFETY DATA SHEET

GEON EXP DB 15020613501 BROWN 3820

Version Number 1.0 Revision Date 03/11/2003 Page 1 of 8 Print Date *11/10/2011*

1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

NON-EMERGENCY TELEPHONE	:	Product Stewardship (440)-930-1395
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	GEON EXP DB 15020613501 BROWN 3820
Product code	:	VC10001667
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
C.I. Pigment Yellow 53	8007-18-9	0.1 - 1
C.I. Pigment Yellow 164	68412-38-4	1 - 5
Titanium dioxide	13463-67-7	1 - 5
Dibutyltin oxide	818-08-6	1 - 5
Diisotridecyl	84896-44-6	1 - 5
3,3'-[(dibutylstannylene)bis(thio)]dipropiona		
te		

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. See Sections 3 and 11 for additional details. This product may contain residual vinyl chloride monomer (VCM) (CAS number 75-01-4) below 8.5 ppm (0.00085%). OSHA considers VCM a suspect carcinogen and regulates it under 29 CFR 1910.1017. It is unlikely, under normal working conditions with adequate ventilation, that the OSHA action level and the OSHA exposure limits will be exceeded for residual VCM. However, the user should take the necessary precautions (e.g. mechanical ventilation, local exhaust ventilation, air-monitoring, respiratory protection, etc.) to ensure airborne levels of any vapors including VCM or dusts that may be released during heating or processing are below regulated levels.

POTENTIAL HEALTH EFFECTS

Routes of Exposure: : Inhalation, Ingestion, Skin contact

Acute exposure

Inhalation

: Resin particles, like other inert materials, can be mechanically irritating.



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Ingestion Eyes	May be harmful if swallowed.Resin particles, like other inert materials, are mechanically irritating to
Skin	eyes. : Experience shows no unusual dermatitis hazard from routine handling
Chronic exposure	: Refer to Section 11 for Toxicological Information.
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 see medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: Not applicable
Flammable Limits	
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Autoignition temperature Suitable extinguishing media	Not applicable.water, dry powder, foam, carbon dioxide (CO2).
Special Fire Fighting Procedures	: Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.
Unusual Fire/Explosion Hazards	: May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) unde fire conditions.
	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.



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	plastic, cardboard or metal containers for disposal. Refer to Section 13 of this MSDS for proper disposal methods.
	7. HANDLING AND STORAGE
Handling	: Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation. Processing fume condensates may contain combustible or toxic residue. Periodically clean hoods, ducts, and other surfaces to minimize accumulation of these materials.
Storage	: Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place.
8. EXI	POSURE CONTROLS / PERSONAL PROTECTION
Respiratory protection	: No personal respiratory protective equipment normally 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)	



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Components	Value	Exposure time	Exposure type	List:
C.I. Pigment Yellow 164	5 mg/m3	Ceiling Limit Value:	Dust. as Mn	OSHA Z1
C.I. Pigment Yellow 164	0.5 mg/m3	PEL:	Dust. as Sb	OSHA Z1
C.I. Pigment Yellow 164	0.2 mg/m3	Time Weighted Average (TWA):	as Mn	ACGIH
C.I. Pigment Yellow 164	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	ACGIH
C.I. Pigment Yellow 53	1 mg/m3	PEL:	as Ni	OSHA Z1
C.I. Pigment Yellow 53	0.5 mg/m3	PEL:	as Sb	OSHA Z1
C.I. Pigment Yellow 53	0.2 mg/m3	Time Weighted Average (TWA):	as Ni	ACGIH
C.I. Pigment Yellow 53	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	ACGIH
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):	Dust.	ACGIH
Titanium dioxide	15 mg/m3	PEL:	Total dust.	OSHA Z1
Dibutyltin oxide	0.1 mg/m3	Time Weighted Average (TWA):	as Sn	ACGIH
	0.2 mg/m3	Short Term Exposure Limit (STEL):	as Sn	ACGIH
Dibutyltin oxide	0.1 mg/m3	PEL:	as Sn	OSHA Z1
Dibutyltin oxide	0.1 mg/m3	Time Weighted Average (TWA):	as Sn	OSHA Z1A
Diisotridecyl 3,3'-[(dibutylstannylen e)bis(thio)]dipropionat e	0.1 mg/m3	Time Weighted Average (TWA):	as Sn	ACGIH
	0.2 mg/m3	Short Term Exposure Limit (STEL):	as Sn	ACGIH
Diisotridecyl 3,3'-[(dibutylstannylen e)bis(thio)]dipropionat e	0.1 mg/m3	PEL:	as Sn	OSHA Z1
Diisotridecyl 3,3'-[(dibutylstannylen e)bis(thio)]dipropionat e	0.1 mg/m3	Time Weighted Average (TWA):	as Sn	OSHA Z1A

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form Appearance Color Odor Melting point/range Boiling Point:
- Solid
 Pellets, powder
 BROWN
 Very faint
 Not determined
 Not applicable
- Evaporation rate Specific Gravity Bulk density Vapor pressure Vapor density pH
- Not applicable.
 Not determined
 Not established
 Not applicable
 Not applicable
 Not applicable



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Water solubility : Insoluble **10. STABILITY AND REACTIVITY** Stability : Stable. Hazardous Polymerization Will not occur. : Conditions to avoid Keep away from oxidizing agents and open flame. To avoid thermal : decomposition, do not overheat. Incompatible Materials : Incompatible with strong acids and oxidizing agents. Avoid contact with acetal homopolymers and acetal copolymers during processing. Hazardous decomposition : Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen products (NOx), other hazardous materials, and smoke are all possible. Prolonged heating (approximately 30 minutes or more) above 392 °F (200 °C) or short term heating at 482 °F (250 °C) may result in product decomposition and evolution of carbon monoxide and hydrogen chloride.

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
8007-18-9	C.I. Pigment Yellow 53	Irritant	Eyes, Skin.
		sensitizer	Skin.
68412-38-4	C.I. Pigment Yellow 164	Irritant	Eyes, Skin.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.
818-08-6	Dibutyltin oxide	Irritant	Eyes, Skin, Respiratory system.
		Systemic effects	Respiratory system, Kidney, central nervous system.
		Highly Toxic	Refer to LC50 / LD50 Data on MSDS
84896-44-6	Diisotridecyl 3,3'-[(dibutylstannylene)bi s(thio)]dipropionate	Irritant	Eyes, Skin.

LC50 / LD50

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

CAS-No.	Chemical Name	Route	Value	Species
818-08-6	Dibutyltin oxide	Oral LD50	44.9 mg/kg	rat

Carcinogenicity:



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

CAS-No.	Chemical Name	OSHA	IARC	NTP
8007-18-9	C.I. Pigment Yellow 53	no	1	2

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.

Additional Health Hazard Information:

C.I. Pigment Yellow 53 8007-18-9 Skin sensitizer "nickel itch", with pulmonary, brain, liver, kidney andmuscle effects.

	12. ECOLOGICAL INFORMATION
Persistence and degradability	: Not readily biodegradable.
Environmental Toxicity	: Adverse ecological impact is not known or expected under normal use
Bioaccumulation Potential	: No data available.
Additional advice	: Not applicable
	13. DISPOSAL CONSIDERATIONS
Product Contaminated packaging	 Like most thermoplastics 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. Recycling is preferred when possible. The generator of waste material is a state of the state of th
	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	: Not regulated for transportation.



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OSHA Status Classified as hazardous based on components. TSCA Status All components of this product are listed on or exempt from the TSCA fuventory. USLEPA CERCLA Hazardous Substances (40 CFR 302) Not applicable California Proposition WARNING! This product contains a chemical known to the State of California to cause cancer. SARA Title III Section 302 Extremely Hazardous Substance Not applicable SARA Title III Section 313 Toxic Chemicals: Chemical Name CAS-No. MANGANESE COMPOUNDSANTIMONY 68412-384 NCKEL COMPOUNDSANTIMONY 6807-18-9 NICKEL COMPOUNDSANTIMONY 8007-18-9 NICKEL COMPOUNDSANTIMONY 8007-18-9 NICKEL COMPOUNDSANTIMONY 8007-18-9 OUTONING 192 NICKEL COMPOUNDSANTIMONY 8007-18-9 OUTON 192 MIS Classification E2A WHMIS Classification E2A MIS Ingredient Disclosure List 1810-86 1810-86 1810-86 1810-86 1810-86 1810-86 1810-86		15. REGULATORY I	NFORMATION		
TSCA Status All components of this product are listed on or exempt from the TSCA further incentory. US. EPA CERCLA Hazardous Substances (40 CFR 302) Not applicable California Proposition WARNING! This product contains a chemical known to the State of California to cause cancer. SARA Title III Section 302 Extremely Hazardous Substance Not applicable SARA Title III Section 313 Toxic Chemicals: Chemical Name CAS-No. MANGANESE COMPOUNDSANTIMONY 68412-38-4 ONYPOUNDS 8007-18-9 OUXYOUNDS	US Regulations:				
Inventory. US. EPA CERCLA Hazardous Substances (40 CFR 302) Not applicable California Proposition : WARNING! This product contains a chemical known to the State of 6's California to cause cancer. SARA Title III Section 302 Extremely Hazardous Substance Not applicable SARA Title III Section 313 Toxic Chemicals: Chemical Name CAS-NO. MANGANESE COMPOUNDSANTIMONY 68412-38-4 OMPOUNDS 8007-18-9 00.77 COMPOUNDSANTIMONY 8007-18-9 00.77 Compounds Disclesification : D2A Disclesification : D2A WHMIS Classification : D2A Disclesification : D2A State 3 Disclesification : D2A Disclesification : D2A Disclesification : D2A Disclesificatine : D2A Disclesificatine : D2A	OSHA Status	: Classified as hazard	ous based on compon	ents.	
Not applicable California Proposition : WARNING! This product contains a chemical known to the State of California to cause cancer. SARA Title III Section 302 Extremely Hazardous Substance Not applicable SARA Title III Section 313 Toxic Chemicals: Chemical Name MANGANESE COMPOUNDSANTIMONY 68412-38-4 01.92 OMPOUNDS NICKEL COMPOUNDSANTIMONY 8007-18-9 00.77 Compounds NIMIS Classification MIMIS Classification Extreme List CAS-No. 68412-38-4 18-08-6	TSCA Status	_	this product are listed	on or exempt from t	he TSCA
California Proposition : WARNING! This product contains a chemical known to the State of 6 SARA Title III Section 302 Extremely Hazardous Substance Not applicable SARA Title III Section 313 Toxic Chemicals: Chemical Name (NANGANESE COMPOUNDSANTIMONY (8412-38-4) (1.92) (0.07) (0.0	US. EPA CERCLA Hazardo	us Substances (40 CFR 302))		
 62 California to cause cancer. SARA Title III Section 302 Extremely Hazardous Substance Not applicable SARA Title III Section 313 Toxic Chemicals: <u>Chemical Name CAS-No. Weight %</u> <u>MANGANESE COMPOUNDSANTIMONY 68412-38-4 01.92</u> <u>NICKEL COMPOUNDSANTIMONY 68412-38-4 01.92</u> <u>NICKEL COMPOUNDSANTIMONY 68412-38-4 01.92</u> <u>NICKEL COMPOUNDSANTIMONY 8007-18-9 00.77</u> Canadian Regulations: MHMIS Classification : D2A MHMIS Ingredient Disclosure List <u>CAS-No. 68412-38-4 818-08-6 8496-44-6</u> DSL : All components of this product are on the Canadian Domestic Eubraces List (DSL) or are exempt. 	Not applicable				
Not applicable SARA Title III Section 313 Toxic Chemicals: <u>ManGANESE COMPOUNDSANTIMONY</u> <u>68412-38-4</u> <u>01.92</u> <u>MANGANESE COMPOUNDSANTIMONY</u> <u>MANGANESE COMPOUNDSANTIMONY</u> <u>MANGANESE COMPOUNDSANTIMONY</u> <u>MANGANESE COMPOUNDSANTIMONY</u> <u>MONPOUNDS</u> <u>MANGANESE COMPOUNDSANTIMONY</u> <u>MONPOUNDS</u> <u>MANGANESE COMPOUNDSANTIMONY</u> <u>MONPOUNDS</u> <u>MUNESCUSES</u> <u>MUNESCUSES</u> <u>MANGANESE COMPOUNDSANTIMONY</u> <u>MONPOUNDS</u> <u>MUNESCUSES</u> <u>MUNESCUSES</u> <u>MUNESCUSES</u> <u>MUNESCUSES</u> <u>MULESCUSES</u> <u>MULESCUSES</u> <u>MULESCUSES</u> <u>MULESCUSES</u> <u>MULESCUSES</u> <u>MULESCUSES</u> <u>MULESCUSES</u>				mical known to the	State of
SARA Title III Section 313 Toxic Chemicals: <u>Chemical Name</u> <u>CAS-No. Weight %</u> <u>MANGANESE COMPOUNDSANTIMONY</u> <u>68412-38-4</u> <u>01.92</u> <u>OMPOUNDS</u> <u>NICKEL COMPOUNDSANTIMONY</u> <u>68412-38-4</u> <u>01.92</u> <u>NICKEL COMPOUNDSANTIMONY</u> <u>68412-38-4</u> <u>01.92</u> <u>NICKEL COMPOUNDSANTIMONY</u> <u>8007-18-9</u> <u>00.77</u> <u>OMPOUNDS</u> <u>Supounds</u> <u>WHMIS Classification</u> <u>WHMIS Classification</u> <u>MHMIS Ingredient Disclosure List</u> <u>Misous-6</u> <u>84896-44-6</u> <u>DSL</u> <u>K All components of this product are on the Canadian Domestic Cubitances List (DSL) or are exempt. </u>	SARA Title III Section 302 l	Extremely Hazardous Substa	ince		
Chemical NameCAS-No.Weight %MANGANESE COMPOUNDSANTIMONY68412-38-401.92COMPOUNDSNICKEL COMPOUNDSANTIMONY8007-18-900.77NICKEL COMPOUNDSANTIMONY8007-18-900.77COMPOUNDSWorkstreamStateCanadian Regulations:WHMIS Classification : D2AWHMIS Ingredient Disclosure ListCAS-No.68412-38-4818-08-684896-44-6DSL : All components of this product are on the Canadian Domestic Gubtances List (DSL) or are exempt.	Not applicable				
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Canadian Regulations: WHMIS Classification : D2A WHMIS Ingredient Disclosure List <u>CAS-No.</u> <u>68412-38-4</u> <u>818-08-6</u> <u>84896-44-6</u> DSL : All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.	NICKEL COMPOU	NDSANTIMONY	8007-18-9	00.77	
WHMIS Classification : D2A WHMIS Ingredient Disclosure List CAS-No. 68412-38-4 818-08-6 84896-44-6 DSL : All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.					
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68412-38-4 818-08-6 84896-44-6 DSL : All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.	WHMIS Ingredient D	isclosure List			
Substances List (DSL) or are exempt.	68412-38-4 818-08-6				
National Inventories:	DSL			e Canadian Domesti	ic
	National Inventories:				



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Australia AICS	: Listed.
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.