### MATERIAL SAFETY DATA SHEET VBX3574A2 149B SHALE POWDER

Version Number 1.1 Revision Date 03/29/2004 Page 1 of 6 Print Date 11/14/2011

#### 1. PRODUCT AND COMPANY IDENTIFICATION

#### POLYONE CORPORATION 8155 Cobb Center Drive, Kennesaw, GA 30152

NON-EMERGENCY TELEPHONE	:	Product Stewardship (770) 590-3500 x.3563
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	VBX3574A2 149B SHALE POWDER
Product code	:	FO20007862
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

#### 2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Titanium dioxide	13463-67-7	1 - 5
Calcium carbonate	1317-65-3	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 Ingestion Eyes Skin	<ul> <li>Resin particles, like other inert materials, can be mechanically irritating.</li> <li>May be harmful if swallowed.</li> <li>Particulates, like other inert materials can be mechanically irritating.</li> <li>Experience shows no unusual dermatitis hazard from routine handling.</li> </ul>
Chronic exposure	: Refer to Section 11 for Toxicological Information.
Medical Conditions Aggravated by Exposure:	: None known.



# MATERIAL SAFETY DATA SHEET VBX3574A2 149B SHALE POWDER

Version Number 1.1 Revision Date 03/29/2004 Page 2 of 6 Print Date 11/14/2011

	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 doubt seek medical advice.	of
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 least 15 minutes. If eye irritation persists, seek medical attention.	at
Skin	: Wash off with soap and plenty of water. If skin irritation persists se medical attention.	el
	5. FIRE-FIGHTING MEASURES	
Flash point	: Not applicable	
Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature Suitable extinguishing media Special Fire Fighting Procedures	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not relevant</li> <li>Carbon dioxide blanket, water spray, dry powder, foam.</li> <li>Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.</li> </ul>	e
Unusual Fire/Explosion Hazards	: May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) und fire conditions. Carbon dioxide (CO2), carbon monoxide (CO), oxic 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.	ot
Methods for cleaning up	: Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal. Refer to Section 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	



# MATERIAL SAFETY DATA SHEET VBX3574A2 149B SHALE POWDER

Version Number 1.1 Revision Date 03/29/2004 Page 3 of 6 Print Date 11/14/2011

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. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection	: No personal respiratory protecti dusty conditions occur wear app	ive equipment normally required. If propriate respiratory protection.
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 Wash hands before breaks and a	l industrial hygiene and safety practice. at the end of workday.
Engineering measures	: Heat only in areas with appropriate exhaust ventilation	iate exhaust ventilation. Provide at machinery.

Exposure limit(s)

Components	Value	Exposure time	Exposure type	List:
Calcium carbonate	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):		ACGIH
	15 mg/m3	PEL:	Total dust.	OSHA Z1

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form Appearance Color Odor Melting point/range Boiling Point: Water solubility
- Solid
  powder, granular
  TAN
  Very faint
  Not determined
  Not applicable
  Insoluble
- Evaporation rate Specific Gravity: Bulk density Vapor pressure Vapour density pH
- Not applicable
  Not determined
  Not determined
  Not applicable
  Not applicable
  Not applicable

#### **10. STABILITY AND REACTIVITY**

Stability

: Stable.



## MATERIAL SAFETY DATA SHEET VBX3574A2 149B SHALE POWDER

Version Number 1.1 Revision Date 03/29/2004 Page 4 of 6 Print Date *11/14/2011* 

Hazardous Polymerization	:	Will not occur.
Conditions to avoid	:	To avoid thermal decomposition, do not overheat. Keep away from oxidizing agents and open flame.
Incompatible Materials	:	Incompatible with strong acids and oxidizing agents. Avoid contact with acetal homopolymers and acetal copolymers during processing.
Hazardous decomposition products	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), hydrogen chloride (HCl), 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
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.
1317-65-3	Calcium carbonate	Irritant	Eyes, Skin.
		Systemic effects	Eyes, Skin, Respiratory system.

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

	1	3 DISPOSAL CONSIDERATIONS
Additional advice	:	No data available
Bioaccumulation Potential	:	No data available
Environmental Toxicity	:	Adverse ecological impact is not known or expected under normal use.
Persistence and degradability	:	Not readily biodegradable.

#### 13. DISPOSAL CONSIDERATIONS

Product	:	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.

PolyOne

## MATERIAL SAFETY DATA SHEET VBX3574A2 149B SHALE POWDER

Version Number 1.1 Revision Date 03/29/2004 Page 5 of 6 Print Date 11/14/2011

	14. TRANSPORT INFORMATION
U.S. DOT Classification	: Not regulated for transportation.
ICAO/IATA (air)	: Not regulated for transportation.
IMO / IMDG (maritime)	: Not regulated for transportation.
	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 Hazardous	Substances (40 CFR 302)
Not applicable	
California Proposition 65	: WARNING! This product contains a chemical known to the State of California to cause cancer.
SARA Title III Section 302 Ext	remely Hazardous Substance
Not applicable	
SARA Title III Section 313 Tox	ic Chemicals:
Not applicable Canadian Regulations:	
National Pollutant Releas	se Inventory (NPRI)
Not applicable	
WHMIS Classification	: Not controlled.
DSL	: All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.
National Inventories:	



### MATERIAL SAFETY DATA SHEET VBX3574A2 149B SHALE POWDER

Version Number 1.1 Revision Date 03/29/2004

Page 6 of 6 Print Date 11/14/2011

China IECS	: Listed
Europe EINECS	: Not determined
Japan ENCS	: Not determined
Korea KECI	: Not determined
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 when used in combination with any other materials and/or in any particular process or processing conditions.