MATERIAL SAFETY DATA SHEET 16735-01 EXPA9002 GREY 2449

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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	:	16735-01 EXPA9002 GREY 2449
Product code	:	VC10008832
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent	
Titanium dioxide	13463-67-7	1 - 5	

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating or processing. 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. May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under fire conditions.

POTENTIAL HEALTH EFFECTS

: Inhalation, Ingestion, Skin contact
: Resin particles, like other inert materials, can be mechanically irritating.
: May be harmful if swallowed.
: Resin particles, like other inert materials, are mechanically irritating to eyes.
: Experience shows no unusual dermatitis hazard from routine handling.
: 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. May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) unde fire conditions. 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

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haust ventilation. Processing fume tible or toxic residue. Periodically faces to minimize accumulation of losed to avoid moisture absorption y, cool place.
ROTECTION
e equipment normally required. If opriate respiratory protection.
industrial hygiene and safety aks and at the end of workday. This yl chloride monomer (VCM) (CAS (0.00085%). It is unlikely, under adequate ventilation, that the for residual VCM. However, the ecautions (e.g. mechanical ion, air-monitoring, respiratory e levels of any vapors including ed during heating or processing are
te exhaust ventilation. Provide machinery.

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: Not applicable

: Not determined

: Not established

Components	Value	Exposure time	Exposure type	List:
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

: solid

: GREY

: pellets, powder

Form
Appearance
Colour
Odour
Melting point/range
Boiling Point:
Water solubility

: very faint Vapour pressure : not applicable : Not determined Vapour density : not applicable : not applicable pH : not applicable : insoluble Insoluble : not applicable 10. STABILITY AND REACTIVITY : Not applicable

Evaporation rate

Specific Gravity

Bulk density

Stability	:	The product is stable if stored and handled as prescribed.
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 products	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.

ardous decomposition	:	Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen
lucts		(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	
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.	

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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
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.					
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 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. 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	: Not regulated for transportation.				
IMO/IMDG (maritime)	: Not regulated for transportation.				
	15. REGULATORY INFORMATION				

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S 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	s Substances (40 CF	R 302)		
not applicable				
California Proposition 65	: Not applicabl	e		
SARA Title III Section 302 Ex	stromaly Hazardous	Substance		
	xuemery mazardous	Bubstance		
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Europe EINECS	: Listed
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.