PolvOne

## MATERIAL SAFETY DATA SHEET ATH-000/000 BLUE

Version Number 1.4 Revision Date 03/11/2014

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POLYONE CORPORATI 33587 Walker Road, Avor		OH 44012
Telephone Emergency telephone	:	1 (440) 930-1000 or 1 (866) POLYONE CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure
number		or accident).
Product name	:	ATH-000/000 BLUE
Product code	:	EM0A905489
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

# ComponentsCAS-No.Weight percentTitanium dioxide13463-67-70.1 - 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	: Particulates, like other inert materials can be mechanically irritating. If overheated or burnt, the polymer releases formaldehyde.
Ingestion	: May be harmful if swallowed.
Eyes	: Particulates, like other inert materials can be mechanically irritating.
Skin	: 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	<ul> <li>not applicable</li> <li>not applicable</li> <li>not applicable</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> <li>Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible. If overheated or burnt, the polymer releases formaldehyde. May burn with invisible flame.</li> </ul>
	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. Open



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		ontainer only in a well-ventilate ppropriate exhaust ventilation.	ed area. Heat only in a	areas with
Storage		Leep containers dry and tightly on contamination. Keep in a dr		re absorption
8.	EXPOSURE	C CONTROLS/PERSONAL P	ROTECTION	
Respiratory protection	V iı p	To personal respiratory protective When temperatures exceed 230° nadequate to maintain concentration ositive air supplied respirator. A rovide adequate protection.	C (446°F) and ventilations below exposure	tion is limits, use a
Eye/Face Protection		afety glasses with side-shields or abnormal processing problem		protective suit
Hand protection	: P	rotective gloves		
Skin and body protection	: L	ong sleeved clothing		
Additional Protective Measures	: S	afety shoes		
General Hygiene Considerations		Iandle in accordance with good ractice. Wash hands before bre		
Engineering measures		leat only in areas with appropria ppropriate exhaust ventilation a		. Provide
Exposure limit(s)				
Components	Value	Exposure time	Exposure type	List:
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):	L	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	as Ti	MX OEL

### 9. PHYSICAL AND CHEMICAL PROPERTIES

(STEL):

Form Appearance Colour Odour : solid: pellets, Slabs: BLUE: formaldehyde-like

Evapouration rate Specific Gravity Bulk density Vapour pressure Not applicableNot determinedNot establishednot applicable

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Melting point/range Boiling Point: Water solubility	<ul> <li>Not determined Vapour density : not applicable</li> <li>not applicable pH : not applicable</li> <li>insoluble</li> </ul>
	10. STABILITY AND REACTIVITY
Stability	: The product is stable if stored and handled as prescribed.
Hazardous Polymerization	: Will not occur.
Conditions to avoid	: Maintain polymer temperature below 230°C (446°F). Avoid prolonged exposure at or above recommended processing temperature.
Incompatible Materials	: Incompatible with strong oxidizers and with strong acids and bases (decomposes to form formaldehyde). At melt temperatures, acetal resins are incompatible with halogenated polymers such as vinyl (PVC) and any elastomers containing any halogenated polymers. At processing conditions, these materials are mutually destructive and involve rapid degradation. Even small amounts of such contaminants can cause sudden and spontaneous formaldehyde gas formation. Workplace fume well above threshold levels are a likely result. Unsafe pressurization of equipment such as extruder or mold can also result. Thoroughly purge and mechanically clean processing equipment to avoid even trace quantities of halogenated materials from coming in contact with the acetal. Prevent contamination of virgin or rework resin.
Hazardous decomposition products	<ul> <li>Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible. If overheated or burnt, the polymer releases formaldehyde.</li> <li>Decomposition of this material depends on the lenght of time it is exposed to elevated temperatures. At the recommended processing temperature of 210°C-220°C (410°F-428°F), decomposition should not be significant until after 30 minutes. Decomposition may be accelerated by contaminants, pigments and/or other additives.</li> </ul>

## **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**

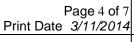
This product contains the following components which in their pure form have the following characteristics:

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.

Persistence and degradability	: Not readily biodegradable.
Environmental Toxicity	: Chemicals are not readily available as they are bound within the polymer matrix.
Bioaccumulation Potential	: Chemicals are not readily available as they are bound within the polymer matrix.
Additional advice	: not applicable
	13. DISPOSAL CONSIDERATIONS
Product Contaminated packaging	<ul> <li>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.</li> <li>Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification,</li> </ul>
	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

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US Regulations:			
OSHA Status : Classified as ha	azardous based on	components.	
TSCA Status : All component TSCA Inventor		re listed on or exe	empt from the
US. EPA CERCLA Hazardous Substances (40 CFR	302)		
not applicable			
California Proposition : Not applicable			
65			
	ubstance		
SADA Title III Section 202 Extremely Dependence St			
SARA Title III Section 302 Extremely Hazardous S		tia Nat Applicabl	a under this rea
SARA Title III Section 302 Extremely Hazardous S Unless specific chemicals are identified under this se SARA Title III Section 313 Toxic Chemicals:		t is Not Applicabl	e under this reg
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Unless specific chemicals are identified under this se SARA Title III Section 313 Toxic Chemicals: Unless specific chemicals are identified under this se Canadian Regulations: <u>National Pollutant Release Inventory (NPRI)</u> Chemical Name	ection, this produc ection, this produc CAS-No.	t is Not Applicabl Weight percent	e under this reg
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Unless specific chemicals are identified under this set SARA Title III Section 313 Toxic Chemicals: Unless specific chemicals are identified under this set Canadian Regulations: <u>National Pollutant Release Inventory (NPRI)</u> Chemical Name Zinc ferrite brown spinel (C.I. Pigment Yellow 119) WHMIS Classification : D2A DSL : All component	ection, this produc ection, this produc CAS-No. 68187-51-9	t is Not Applicabl Weight percent 0.10 - 1.00	e under this reg
Unless specific chemicals are identified under this set SARA Title III Section 313 Toxic Chemicals: Unless specific chemicals are identified under this set Canadian Regulations: <u>National Pollutant Release Inventory (NPRI)</u> Chemical Name Zinc ferrite brown spinel (C.I. Pigment Yellow 119) WHMIS Classification : D2A DSL : All component	ection, this product ection, this product CAS-No. 68187-51-9 ts of this product a	t is Not Applicabl Weight percent 0.10 - 1.00	e under this reg
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Japan ENCS	:	Not determined
Japan LINCS	•	1000

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.