### MATERIAL SAFETY DATA SHEET HELIX BLUE

Version Number 1.0 Revision Date 01/31/2005

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

#### POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

Telephone:Emergency telephone:number	Product Stewardship (770) 271-5902 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name :	HELIX BLUE
Product code :	CC10064791
Chemical Name :	Mixture
CAS-No. :	Mixture
Product Use :	Industrial Applications

### 2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Aluminum	7429-90-5	1 - 5
Titanium dioxide	13463-67-7	1 - 5

#### **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

<b>Routes of Exposure:</b>	: Inhalation, Ingestion, Skin contact
Acute exposure	
Inhalation Ingestion Eyes	<ul> <li>Resin particles, like other inert materials, can be mechanically irritating.</li> <li>May be harmful if swallowed.</li> <li>Resin particles, like other inert materials, are mechanically irritating to eyes.</li> </ul>
Skin	: 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.



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	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 Lower explosion limit Autoignition temperature Suitable extinguishing media	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Carbon dioxide blanket, water spray, dry powder, foamnone.</li> </ul>
Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	<ul> <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.</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. Refer to Section 1 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.
Storage	: Keep containers dry and tightly closed to avoid moisture absorption



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8. 1	EXPOSURE	CONTROLS / PERSONAL	PROTECTION		
Respiratory protection	: N	o personal respiratory protect	ive equipment normally re	equired.	
Eye/Face Protection	: S	: Safety glasses with side-shields.			
Hand protection	: P	: Protective gloves.			
Skin and body protection	: L	: Long sleeved clothing.			
Additional Protective Measures	: S	afety shoes.			
General Hygiene Considerations		andle in accordance with good Vash hands before breaks and		fety practice	
Engineering measures		leat only in areas with appropription propriate exhaust ventilation		Provide	
Exposure limit(s)					
Components	Value	Exposure time	Exposure type	List:	
Aluminum	10 mg/m3	Time Weighted Average (TWA):	Dust.	ACGIH	
	15 mg/m3	PEL:	Total dust. as Al	OSHA Z1	
	5 mg/m3	PEL:	Respirable dust. as Al	OSHA Z1	
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):		ACGIH	
	15 mg/m3	PEL:	Total dust.	OSHA Z1	
	9 PHVSI	CAL AND CHEMICAL PRO	OPFRTIFS		
	<i>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</i>				
Form	: Solic	l Evapo	ration rate : Not	applicable	
Appearance	: Pelle	1	2	determined	
Color	: BLU		5	established	
Odor				applicable	
Melting point/range				applicable	
Boiling Point:		applicable pH	: Not	applicable	
Water solubility	: Insol	uble			
	10. 5	STABILITY AND REACTIV	VITY		
Stability	: S	table.			
Hazardous Polymerization	n : W	Vill not occur.			
Conditions to avoid	: K	leep away from oxidizing age	nts and open flame. To av	void thermal	



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	decor	nposition, do not over	rheat.	
Incompatible Materials	s : Incon	npatible with strong a	cids and o	kidizing agents.
Hazardous decomposit	ion : Carbo	on dioxide (CO2), car	bon monox	tide (CO), oxides of nitrogen
products				d smoke are all possible.
	11. TOXI(	COLOGICAL INFO	RMATIO	N
This mixture has not be health data for the indi				re effects listed are based on exi
<u>Toxicity Overview</u> This product contains t	he following compo	onents which in their j	oure form h	nave the following characteristic
CAS-No.	Chemical Na	ame Eff	ect	Target Organ
7429-90-5	Aluminum	Irritant		Skin, Respiratory system.
		Systemic		Eyes, Skin, Respiratory system
13463-67-7	Titanium dioxide	Systemic	effects	Respiratory system.
	12. ECO	LOGICAL INFOR	MATION	
Bioaccumulation Potential : Chemicals a polymer mat		ner matrix.		s they are bound within the
Additional advice	. 110 uz	tta avallable		
	13. DISI	POSAL CONSIDER	ATIONS	
		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.		
has and		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.		
	<b>14. TR</b>	ANSPORT INFORM	IATION	
U.S. DOT Classificatio	on : Not r	egulated for transport	ation.	

	NONE CORPORATION			
OLYONE CORPORA	TION			
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ersion Number 1.0 evision Date 01/31/2005			Prir	Page 5 of nt Date <u>11/17/201</u>
ICAO/IATA (air)	: Refer to specific re	egulation.		
IMO / IMDG (maritime)	: Refer to specific re	egulation.		
	15. REGULATORY	INFORMATION		
US Regulations:				
OSHA Status	: Classified as hazar	dous based on comp	oonents.	
TSCA Status	: All components of Inventory.	f this product are list	ed on or exem	pt from the TSCA
US. EPA CERCLA Hazardous Substances (40 CFR 302)				
US. ELA CENCLA Hazaluou				
Not applicable	· WARNING! This	product contains a	chemical knov	vn to the State of
Not applicable California Proposition 65 SARA Title III Section 302 E Not applicable	California to cause xtremely Hazardous Subs	e cancer.	chemical knov	wn to the State of
Not applicable California Proposition 65 SARA Title III Section 302 E Not applicable SARA Title III Section 313 To	California to cause	e cancer. tance		
Not applicable California Proposition 65 SARA Title III Section 302 E Not applicable	California to cause xtremely Hazardous Subs oxic Chemicals:	e cancer.	chemical knov Weight 2.51	
Not applicable California Proposition 65 SARA Title III Section 302 E Not applicable SARA Title III Section 313 To Chemical Name ALUMINUM (FUME Canadian Regulations: National Pollutant Refe	California to cause xtremely Hazardous Subs oxic Chemicals: OR DUST)	e cancer. tance CAS-No. 7429-90-5	Weight 2.51	<u>%</u>
Not applicable California Proposition 65 SARA Title III Section 302 E Not applicable SARA Title III Section 313 To Chemical Name ALUMINUM (FUME Canadian Regulations: National Pollutant Rele Chemical Name	California to cause xtremely Hazardous Subs oxic Chemicals: OR DUST)	e cancer. tance CAS-No. 7429-90-5 CAS-No.	Weight 2.51	. % NPRI ID#
Not applicable California Proposition 65 SARA Title III Section 302 E Not applicable SARA Title III Section 313 To Chemical Name ALUMINUM (FUME Canadian Regulations: National Pollutant Rele Chemical Name Aluminum	California to cause xtremely Hazardous Subs oxic Chemicals: OR DUST)	cancer. tance CAS-No. 7429-90-5 CAS-No. 7429-90-5	Weight 2.51	NPRI ID# 12
Not applicable California Proposition 65 SARA Title III Section 302 E Not applicable SARA Title III Section 313 To Chemical Name ALUMINUM (FUME Canadian Regulations: National Pollutant Rele Chemical Name	California to cause xtremely Hazardous Subs oxic Chemicals: OR DUST)	e cancer. tance CAS-No. 7429-90-5 CAS-No.	Weight 2.51	. % NPRI ID#

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DSL	:	All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.
National Inventories:		
Australia AICS	:	Listed
China IECS	:	Listed
Europe EINECS	:	Listed
Japan ENCS	:	Not determined
Korea KECI	:	Listed
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.