

MATERIAL SAFETY DATA SHEET **NAVY BLUE TUBING**

Version Number 1.1 Revision Date 01/08/2004

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

NON-EMERGENCY TELEPHONE	:	Product Stewardship (770) 271-5902
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	NAVY BLUE TUBING
Product code	:	CC10037271
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Titanium dioxide	13463-67-7	5 - 10

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

: Inhalation, Ingestion, Skin contact			
: Particulates, like other inert materials can be mechanically irritating. Excessive inhalation of product vapors, especially during heating or processing, may be irritating to respiratory system.			
: May be harmful if swallowed.			
: Particulates, like other inert materials can be mechanically irritating.			
: Experience shows no unusual dermatitis hazard from routine handling.			
: Refer to Section 11 for Toxicological Information.			



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Aggravated by Exposure:	
	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 of 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 Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	 Not applicable Not applicable Not applicable Carbon dioxide blanket, water spray, dry powder, foamnone. Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible. May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) under 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.
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



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Handling	: T	ake measures to prevent the bu	ild up of electrostatic cl	harge Heat
	0	nly in areas with appropriate ex	khaust ventilation.	
Storage	: Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place.			
8. E	XPOSURE	CONTROLS / PERSONAL	PROTECTION	
Respiratory protection	: N	o personal respiratory protecti	ve equipment normally	required.
Eye/Face Protection	: S	afety glasses with side-shields.		
Hand protection	: P	rotective gloves.		
Skin and body protection	: L	ong sleeved clothing.		
Additional Protective Measures	: Safety shoes.			
General Hygiene Considerations	: Handle in accordance with good industrial hygiene and safety pr 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.			
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Exposure limit(s)				
-	Value	Exposure time	Exposure type	List:
Components Titanium dioxide	Value 10 mg/m3	Exposure time Time Weighted Average (TWA):	Exposure type	List: ACGIH
Components		Time Weighted Average	Exposure type Total dust.	ACGIH
Components	10 mg/m3 15 mg/m3	Time Weighted Average (TWA):	Total dust.	ACGIH
Components Titanium dioxide	10 mg/m3 15 mg/m3 9. PHYSIC	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO	Total dust. PERTIES	ACGIH OSHA ZI
Components Titanium dioxide Form	10 mg/m3 15 mg/m3 9. PHYSIC : Solic	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO	Total dust. PERTIES ration rate : Not	ACGIH OSHA Z1
Components Titanium dioxide Form Appearance	10 mg/m3 15 mg/m3 9. PHYSIC : Solic : Pelle	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO L Evapor ts Specifi	Total dust. PERTIES ration rate : Not c Gravity: : Not	ACGIH OSHA ZI t applicable t determined
Components Titanium dioxide Form Appearance Color	10 mg/m3 15 mg/m3 9. PHYSIC : Solic : Pelle : BLU	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO the Evapor the Specifi E Bulk de	Total dust. PERTIES ration rate : Not c Gravity: : Not ensity : Not	ACGIH OSHA Z1 t applicable t determined t established
Components Titanium dioxide Form Appearance Color Odor	10 mg/m3 15 mg/m3 9. PHYSIC : Solid : Pelle : BLU : Very	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO the Evapor the Specifi E Bulk de faint Vapor	Total dust. PERTIES ration rate : Not c Gravity: : Not ensity : Not pressure : Not	ACGIH OSHA Z1 t applicable t determined t established t applicable
Components Titanium dioxide Form Appearance Color Odor Melting point/range	10 mg/m3 15 mg/m3 9. PHYSIC : Solic : Pelle : BLU : Very : Not c	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO the Evapor the Specifi E Bulk du faint Vapor determined Vapour	Total dust. PERTIES ation rate : Not c Gravity: : Not ensity : Not pressure : Not r density : Not	ACGIH OSHA Z1 t applicable t determined t established t applicable t applicable
Components Titanium dioxide Form Appearance Color Odor Melting point/range Boiling Point:	10 mg/m3 15 mg/m3 9. PHYSIC : Solid : Pelle : BLU : Very : Not c : Not a	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO the Evapor the Evapor the Specifi E Bulk du faint Vapor determined Vapour applicable pH	Total dust. PERTIES ation rate : Not c Gravity: : Not ensity : Not pressure : Not r density : Not	ACGIH OSHA Z1 t applicable t determined t established t applicable
Components Titanium dioxide Form Appearance Color Odor Melting point/range	10 mg/m3 15 mg/m3 9. PHYSIC : Solic : Pelle : BLU : Very : Not c	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO the Evapor the Evapor the Specifi E Bulk du faint Vapor determined Vapour applicable pH	Total dust. PERTIES ation rate : Not c Gravity: : Not ensity : Not pressure : Not r density : Not	ACGIH OSHA Z1 t applicable t determined t established t applicable t applicable
Components Titanium dioxide Form Appearance Color Odor Melting point/range Boiling Point:	10 mg/m3 15 mg/m3 9. PHYSIC : Solic : Pelle : BLU : Very : Not a : Insol	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO the Evapor the Evapor the Specifi E Bulk du faint Vapor determined Vapour applicable pH	Total dust. PERTIES ration rate : Not c Gravity: : Not ensity : Not pressure : Not r density : Not	ACGIH OSHA Z1 t applicable t determined t established t applicable t applicable
Components Titanium dioxide Form Appearance Color Odor Melting point/range Boiling Point:	10 mg/m3 15 mg/m3 9. PHYSIC : Solid : Pelle : BLU : Very : Not a : Insol 10. S	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO the Evapor the Evapor	Total dust. PERTIES ration rate : Not c Gravity: : Not ensity : Not pressure : Not r density : Not	ACGIH OSHA Z1 t applicable t determined t established t applicable t applicable
Components Titanium dioxide Form Appearance Color Odor Melting point/range Boiling Point: Water solubility	10 mg/m3 15 mg/m3 9. PHYSIC : Solid : Pelle : BLU : Very : Not a : Insol 10. S : S	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO the Evapor the Evapor	Total dust. PERTIES ration rate : Not c Gravity: : Not ensity : Not pressure : Not r density : Not	ACGIH OSHA Z1 t applicable t determined t established t applicable t applicable
Components Titanium dioxide Form Appearance Color Odor Melting point/range Boiling Point: Water solubility Stability	10 mg/m3 15 mg/m3 9. PHYSIC : Solid : Pelle : BLU : Very : Not a : Insol 10. S : S n : W	Time Weighted Average (TWA): PEL: CAL AND CHEMICAL PRO the Evapor the Evapor	Total dust. PERTIES ration rate : Not c Gravity: : Not ensity : Not pressure : Not r density : Not : Not ITY	ACGIH OSHA Z1 t applicable t determined t established t applicable t applicable t applicable



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		decomposition	, do not overheat.			
Incompatible Materials	:	 Avoid contact with strong oxidizers. Also, avoid contact with acetal or acetal copolymers and with amine containing materials during processing. At processing conditions, these materials are mutually destructive and involve rapid degradation. Thoroughly purge and mechanically clean processing equipment to avoid even trace quantities of these materials from coming in contact with each other. Prevent cross contamination of feedstocks. 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. 				
Hazardous decomposition products	:					
	11 7	FOXICOLOGI	CAL INFORMATIO)N		
health data for the individual of <u>Toxicity Overview</u>	luated compo	l as a whole for h onents which cor	nealth effects. Expose nprise the mixture.	are effects listed are based on exis		
This product contains the follo						
	Chem	ical Name	Effect	Target Organ		

Persistence and degradability	:	Not readily biodegradable.
Environmental Toxicity	:	Chemicals are not readily available as they are bound within the matrix of the polymer.
Bioaccumulation Potential	:	Chemicals are not readily available as they are bound within the matrix of the polymer.
Additional advice	:	No data available
	1.	3. DISPOSAL CONSIDERATIONS
Product	<u>1</u> : :	3. DISPOSAL CONSIDERATIONS 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.



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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 (air) Refer to specific regulation. : IMO / IMDG (maritime) : Refer to specific regulation. **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 : This product does not contain a substance listed by California Prop 65. 65 SARA Title III Section 302 Extremely Hazardous Substance Not applicable SARA Title III Section 313 Toxic Chemicals: Not applicable Canadian Regulations: National Pollutant Release Inventory (NPRI) Not applicable WHMIS Classification : D2B DSL All components of this product are on the Canadian Domestic : Substances List (DSL) or are exempt.

National Inventories:



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Australia AICS	:	Listed
China IECS	:	Listed
Europe EINECS	:	Listed
Japan ENCS	:	Listed
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.