PolvOne

#### MATERIAL SAFETY DATA SHEET PIPE GREEN 2

Version Number 1.4 Revision Date 03/13/2014

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POLYONE CORPORATI 33587 Walker Road, Avon		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	:	PIPE GREEN 2
Product code	:	CC10103267
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

Components	CAS-No.	Weight percent
Silica, amorphous	7631-86-9	1 - 5

#### **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. Do not use this pigment in polymers at temperatures over 200°C (392°F). Decomposition of diarylide pigments in polymers at temperatures over 200°C (392°F) may produce trace amounts of monoazo dyes, which in turn can decompose to produce aromatic amines. The amount and type of degradation products formed depend on the dwell time, formulation and processing conditions as well as temperature. As conditions become more severe, as when temperatures move into the 240-300°C (464-572°F) range, trace quantities of 3,3'-dichlorobenzidine can be generated. 3,3'-dichlorobenzidine is classified as a suspect carcinogen by NTP and IARC, is classified as Acute Toxicity category 4 and Carcinogen Category 1B according to 1272/2008EC (CLP), and is regulated by OSHA as a suspect carcinogen. In order to avoid the generation of and exposure to 3,3'-dichlorobenzidine, do not use diarylide pigments in polymers when temperatures exceed 200°C (392°F). Handle with care. Organic dusts have the potential to be explosive with static spark or flame initiation.

#### POTENTIAL HEALTH EFFECTS

**Routes of Exposure:** 

: Inhalation, Skin contact, Ingestion

Acute exposure



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Inhalation	: Inhalation of airborne droplets may cause irritation of the respiratory tract.
Ingestion	: May be harmful if swallowed.
Eyes	: Irritating to eyes and respiratory system.
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.
	4. FIRST AID MEASURES
Inhalation	: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Seek medical attention after significant exposure.
Ingestion	: Do not induce vomiting without medical advice. Seek medical attention if necessary.
Eyes	: Rinse immediately with plenty of water for at least 15 minutes. If ey 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	: Greater than 200 °F (93 °C)
Flammable Limits	not applicable
Upper explosion limit Lower explosion limit	: not applicable : not applicable
Auto-ignition temperature	: Not applicable
Suitable extinguishing media	: Carbon dioxide blanket, Dry powder, Foam.
Special Fire Fighting	: Fullface self-contained breathing apparatus (SCBA) used in positive
Procedures	pressure mode should be worn to prevent inhalation of airborne
	contaminants.
Unusual Fire/Explosion Hazards	: 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.



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Imit (REL):     Imit (REL):       0.8 mg/m3     Time Weighted Average (TWA):     Z3       10 mg/m3     Time Weighted Average (TWA):     Inhalable particulate.     MX OEI       3 mg/m3     Time Weighted Average     Respirable dust.     MX OEI	ion Number 1.4 sion Date 03/13/2014			Print [	Page 3 Date 3/20/2
Handling       : Heat only in areas with appropriate exhaust ventilation.         Storage       : Keep containers dry and tightly closed to avoid moisture absorption and contamination. Store in a cool dry place.         8. EXPOSURE CONTROLS/PERSONAL PROTECTION         Respiratory protection       : Under normal handling conditions a respirator may not be required.         Eye/Face Protection       : Safety glasses with side-shields         Hand protection       : Protective gloves         Skin and body protection       : Long sleeved clothing         Additional Protective       : Safety shoes         Measures       :         General Hygiene       : Handle in accordance with good industrial hygiene and safety practice. 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.         Exposure limit(s)       : Recommended exposure limit (REL):         0.8 mg/m3       Time Weighted Average       Z3         (TWA):       : Z3       : CWA):       Z3         10 mg/m3       Time Weighted Average       Respirable dust.       MX OEI         3 mg/m3       Time Weighted Average       Respirable dust.       MX OEI	Methods for cleaning up	: S b	oak up with inert absorbent m inder, universal binder, sawdu	aterial (e.g. sand, silica ge st). Package all material	
Storage       : Keep containers dry and tightly closed to avoid moisture absorption and contamination. Store in a cool dry place.         8. EXPOSURE CONTROLS/PERSONAL PROTECTION         Respiratory protection       : Under normal handling conditions a respirator may not be required.         Eye/Face Protection       : Safety glasses with side-shields         Hand protection       : Protective gloves         Skin and body protection       : Long sleeved clothing         Additional Protective       : Safety shoes         Measures       :         General Hygiene       : Handle in accordance with good industrial hygiene and safety practice. 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.         Exposure limit(s)       :       0.8 mg/m3         Recommended exposure (TWA):       :       NIOSH         10 mg/m3       Time Weighted Average (TWA):       Inhalable particulate.       MX OEI (TWA):		7.	HANDLING AND STORA	GE	
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3 mg/m3 Time Weighted Average Respirable dust. MX OEI		10 mg/m3	Time Weighted Average	Inhalable particulate.	MX OEL
(1WA):		3 mg/m3		Respirable dust.	MX OEL

Form Appearance Colour

: liquid : viscous, liquid : GREEN

Evapouration rate:Not establishedSpecific Gravity:Not determinedBulk density:Not applicable

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Odour Melting point/range Boiling Point: Water solubility	<ul><li>very faint</li><li>not applicable</li><li>not applicable</li><li>immiscible</li></ul>	Vapour pressure Vapour density pH	<ul><li>not determined</li><li>Not determined</li><li>not applicable</li></ul>
	10. STABILITY ANI	<b>D REACTIVITY</b>	
Stability	: The product is stab	le if stored and handled as	s prescribed.
Hazardous Polymerization	: Will not occur.		
Conditions to avoid	: Keep away from ox	kidizing agents and open f	lame.
Incompatible Materials	: Incompatible with	strong acids and oxidizing	g agents.
Hazardous decomposition products	(NOx), other hazar use this pigment in Decomposition of c over 200°C (392°F which in turn can d amount and type of time, formulation a As conditions beco the 240-300°C (464 dichlorobenzidine c classified as a susp Acute Toxicity cate 1272/2008EC (CLI carcinogen. In orde dichlorobenzidine, temperatures excee	D2), carbon monoxide (C0 dous materials, and smoke polymers at temperatures diarylide pigments in poly ) may produce trace amou ecompose to produce arou degradation products for nd processing conditions me more severe, as when 4-572°F) range, trace quar can be generated. 3,3'-dic ect carcinogen by NTP an egory 4 and Carcinogen C P), and is regulated by OS er to avoid the generation do not use diarylide pigm d 200°C (392°F). Handle ntial to be explosive with	e are all possible. Do not over 200°C (392°F). mers at temperatures ints of monoazo dyes, matic amines. The med depend on the dwell as well as temperature. temperatures move into ntities of 3,3'- hlorobenzidine is d IARC, is classified as ategory 1B according to HA as a suspect of and exposure to 3,3'- ents in polymers when e with care. Organic

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
7631-86-9	Silica, amorphous	Irritant	Eyes, Respiratory system.

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

Persistence and degradability

: Not readily biodegradable.

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Environmental Toxicity	: Adverse ecological impact is not known or expected under normal use.	
Bioaccumulation Potential	: Does not bioaccumulate.	
Additional advice	: no data available	
	13. DISPOSAL CONSIDERATIONS	
Product	: Where possible recycling is preferred to disposal or incineration. T generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.	. `he
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.	
	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	
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	: Not applicable	
SARA Title III Section 302 Ext	remely Hazardous Substance	
Unless specific chemicals are id		_

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SARA Title III Section 313 Toxic Chemicals:

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

Canadian Regulations:

Chemical Name		ventory (NPRI) CAS-No.	Weight	NPRI ID#
			percent	
Phenol, nonyl-, phosphite (3:1	l)	26523-78-4	1.00 - 5.00	
			1.00 - 5.00	
			1.00 - 5.00	
Phthalocyanine green		1328-53-6	10.00 - 30.00	
WHMIS Classification	:	Not controlled. All components of this product Substances List (DSL) or are ex		Domestic
ational Inventories:				
ational Inventories: Australia AICS	:	Listed		
	:	Listed Not determined		
Australia AICS	: : :			
Australia AICS China IECS	::	Not determined		
Australia AICS China IECS Europe EINECS	: : : :	Not determined Not determined		
Australia AICS China IECS Europe EINECS Japan ENCS	: : : :	Not determined Not determined Not determined		

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.