

### MATERIAL SAFETY DATA SHEET

# 4635CGNS PANTONE(R) 4635 C SIMULATION

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# 1. PRODUCT AND COMPANY IDENTIFICATION

### POLYONE CORPORATION 2700 Papin Street, St. Louis, MO 63103

NON-EMERGENCY TELEPHONE	:	Product Stewardship, (314) 771-1800
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	4635CGNS PANTONE(R) 4635 C SIMULATION
Product code	:	FO00001402
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

### 2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
1,2-Benzenedicarboxylic acid, butyl	85-68-7	1 - 5
phenylmethylester		
Carbon black	1333-86-4	0.1 - 1
Titanium dioxide	13463-67-7	1 - 5
Calcium carbonate	1317-65-3	10 - 30

### **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.

#### POTENTIAL HEALTH EFFECTS

<b>Routes of Exposure:</b>	: Inhalation, Skin contact, Ingestion
Acute exposure	
Inhalation	: Inhalation of airborne droplets may cause irritation of the respiratory tract.
Ingestion	: May be harmful if swallowed.
Eyes	: May cause eye/skin irritation.
Skin	: Experience shows no unusual dermatitis hazard from routine handling.



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Chuonia ornoguno	. Defer to Section 11 for Toxicological Information
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. 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 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 see medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: No data available.
Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature Suitable extinguishing media Special Fire Fighting Procedures Unusual Fire/Explosion Hazards	<ul> <li>No data available.</li> <li>No data available.</li> <li>Not applicable.</li> <li>Carbon dioxide blanket, dry powder, foam, Water spray.</li> <li>Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.</li> <li>May emit Hydrogen Chloride (HCl) or Carbon Monoxide (CO) unde fire conditions.</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	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder universal binder, sawdust). Package all material in appropriate container for disposal. Refer to Section 13 of this MSDS for proper disposal methods.
	7. HANDLING AND STORAGE



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Handling	:	Heat only in areas with appropriate exhaust ventilation. Processing fume condensates may contain combustible or toxic residue. Periodically clean hoods, ducts, and other surfaces to minimize accumulation of these materials.
Storage	:	Keep containers dry and tightly closed to avoid moisture absorption and contamination. Store in a cool dry place.
8. EXP	OSUF	RE 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 Measures	:	Safety shoes.
General Hygiene Considerations	:	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)

Components	Value	Exposure time	Exposure type	List:
Calcium carbonate	10 mg/m3	Time Weighted Average	Total dust.	ACGIH
		(TWA):		
Calcium carbonate	5 mg/m3	PEL:	Respirable dust.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
Carbon black	3.5 mg/m3	Time Weighted Average	Total dust. as carbon	ACGIH
		(TWA):	black	
Carbon black	3.5 mg/m3	PEL:	Total dust. as carbon	OSHA Z1
			black	
Titanium dioxide	10 mg/m3	Time Weighted Average	Total dust.	ACGIH
		(TWA):		
Titanium dioxide	15 mg/m3	PEL:	Total dust.	OSHA Z1

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Form Appearance Color Odor : Liquid: Viscous, Liquid: BROWN: Very faint

Evaporation rate Specific Gravity Bulk density Vapor pressure Not establishedNot determinedNot applicable.

: Not determined



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Melting point/range Boiling Point: Water solubility	<ul><li>Not applicable</li><li>Not applicable</li><li>Immiscible</li></ul>	Vapor density pH	<ul><li>Not determined</li><li>Not applicable.</li></ul>
	10. STABILITY AN	D REACTIVITY	
Stability	: Stable.		
Hazardous Polymerization	: Will not occur.		
Conditions to avoid	: Keep away from o decomposition, do		flame. To avoid thermal
Incompatible Materials	-	strong acids and oxidizin olymers and acetal copoly	
Hazardous decomposition products	(NOx), hydrogen of smoke are all poss degradation. As a after one hour at 1		rdous materials, and

## 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
85-68-7	1,2-Benzenedicarboxylic	Irritant	Eyes, Skin.
	acid, butyl		
	phenylmethylester		
		Systemic effects	Liver, reproductive system.
1333-86-4	Carbon black	Systemic effects	Eyes, Respiratory system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.
1317-65-3	Calcium carbonate	Irritant	Eyes, Skin.
		Systemic effects	Eyes, Skin, Respiratory system.

### LC50 / LD50

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

CAS-N	No.	Chemical Name	Route	Value	Species
85-68-7		1,2-Benzenedicarboxylic acid, butyl phenylmethylester	Oral LD50 Dermal LD50	2,330 mg/kg > 10 gm/kg	rat rabbit
1333-86-4		Carbon black	Oral LD50 Dermal LD50	> 15,400 mg/kg > 3 gm/kg	rat rabbit



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Carcinogenicity:

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

CAS-No.	Chemical Name	OSHA	IARC	NTP
1333-86-4	Carbon black	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.

#### Additional Health Hazard Information:

Carbon black 1333-86-4 Carcinogenicity: Many inhalation toxicologists believe that the tumor response observed in the referenced rat studies is species specific and does not correlate to human exposure. However, the IARC evaluation in Monograph Volume 65, issued in April 1996 concluded that, "There is sufficient evidence in experimental animals for the carcinogenicity of carbon black". Based on this evaluation, along with their evaluation of inadequate evidence of carcinogenicity in humans, IARC's overall evaluation is that "Carbon Black is possibly carcinogenic to humans (Group 2B). Carbon Black has not been listed as a carcinogen by the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA). The National Institute of Occupational Safety and Health (NIOSH) criteria document on carbon black recommends that only carbon black with PAH (polynuclear aromatic hydrocarbon) levels greater than 0.1% be considered suspect carcinogens.

### **12. ECOLOGICAL INFORMATION**

Persistence and degradability	: Not readily biodegradable.	
Environmental Toxicity	: Environmental toxicity has not been established for this mixture as a whole.	1
Bioaccumulation Potential	: No data available.	
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 mater	ial



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		14. TRANS	SPORT INFOR	RMATION	
	. / CA T.D.G. on (Non-bulk	: Not regu	lated for transpo	ortation.	
ICAO/IATA	A	: Not regul	lated for transpo	ortation.	
IMO / IMD	G	: Not regu	lated for transpo	ortation.	
		15. REGUL	ATORY INFO	RMATION	
US Regulat	ions:				
OSI	HA Status	: Classifie	d as hazardous b	based on components.	
TSC	CA Status	: All comp exempt.	oonents of this p	roduct are listed on the	TSCA inventory or are
US. EPA C	ERCLA Hazard	ous Substances (40	) CFR 302)		
Cher	nical Name	CAS-No.	% in Product	RQ for component	RQ for Mixture/Product
oxyli	Benzenedicarb ic acid, butyl ylmethylester	85-68-7	3.39	100lbs	2,942 LB
Cali 65 Canadian R	fornia Propositi egulations:	Californi chemical	a to cause cance	er., WARNING! This tate of California to ca	
WH	MIS Classificat	ion : D2A			
WH	MIS Ingredient	Disclosure List			
	CAS-No. 7440-38-2 1333-86-4 7439-92-1 7631-86-9 85-68-7				



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75-01-4		
DSL	:	Listed.
National Inventories:		
Australia AICS	:	Listed.
China IECS	:	Not determined.
Europe EINECS	:	Not determined.
Japan ENCS	:	Not determined.
Korea KECI	:	Listed.
Philippines PICC	S :	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.