### MATERIAL SAFETY DATA SHEET REFRIG WHITE V4

Version Number 1.0 Revision Date 06/06/2007

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

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

Telephone Emergency telephone	:	Product Stewardship (770) 271-5902 CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	REFRIG WHITE V4
Product code	:	CC10100714
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

#### 2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Titanium dioxide	13463-67-7	30 - 60

#### **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	<ul><li>Resin particles, like other inert materials, can be mechanically irritating.</li><li>May be harmful if swallowed.</li></ul>				
Eyes	: Resin particles, like other inert materials, are mechanically irritating to eyes.				
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 overheating or combustion. When symptoms persist or in a doubt seek medical advice.	
Ingestion	: Do not induce vomiting without medical advice. When syn persist or in all cases of doubt seek medical advice.	nptoms
Eyes	: Rinse immediately with plenty of water, also under the eye least 15 minutes. If eye irritation persists, seek medical atte	
Skin	: Wash off with soap and plenty of water. If skin irritation p medical attention.	ersists seel
	5. FIRE-FIGHTING MEASURES	
Flash point	: Not applicable	
Flammable Limits		
Upper explosion limit	: Not applicable	
Lower explosion limit	: Not applicable	
Autoignition temperature	: Not applicable	
Suitable extinguishing media	: Carbon dioxide blanket, Water spray, Dry powder, Foam.	
Special Fire Fighting Procedures	: Fullface self-contained breathing apparatus (SCBA) used in pressure mode should be worn to prevent inhalation of airb contaminants.	
Unusual Fire/Explosion Hazards	: Carbon dioxide (CO2), carbon monoxide (CO), oxides of n (NOx), other hazardous materials, and smoke are all possib	
	ACCIDENTAL RELEASE MEASURES	
Personal precautions	: Wear appropriate personal protection during cleanup, such impervious gloves, boots and coveralls.	as
Environmental precautions	: Should not be released into the environment. The product be allowed to enter drains, water courses or the soil.	should not
Methods for cleaning up	: Clean up promptly by sweeping or vacuum. Package all m plastic, cardboard or metal containers for disposal. Refer to of this MSDS for proper disposal methods.	
	7. HANDLING AND STORAGE	
Handling	: Take measures to prevent the build up of electrostatic charge only in areas with appropriate exhaust ventilation.	ge. Heat
Storage	: Keep containers dry and tightly closed to avoid moisture al	osorption

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and contamination. Keep in a dry, cool place.								
8. EXPOSURE CONTROLS / PERSONAL PROTECTION								
Respiratory protection : No personal respiratory protective equipment normally required.								
Eye/Face Protection	Eye/Face Protection : Safety glasses with side-shields							
Hand protection	: P	rotective gloves						
Skin and body protection	: L	ong sleeved clothing						
Additional Protective Measures	: S	afety shoes						
General Hygiene Considerations		andle in accordance with government of the second s						
Engineering measures		leat only in areas with appropriate exhaust ventilation		on. Provide				
Exposure limit(s)								
Components	Value	Exposure time	Exposure type	List:				
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA):		ACGIH				
	15 mg/m3	PEL:	Total dust.	OSHA Z1				
	10 mg/m3	Time Weighted Average (TWA):	e as Ti	MX OEL				
	20 mg/m3	Short Term Exposure Lim (STEL):	it as Ti	MX OEL				
	0 DHVSI	CAL AND CHEMICAL P	DODEDTIES					
	9. FHISK	LAL AND CHEMICAL F	NOFERTIES					
Form	: Solid			Not applicable				
Appearance	: pelle		2	Not determined				
Color	: WHI		2	Not established				
Odour Melting point/range		v faintVapour pressure: Not applicabledeterminedVapour density: Not applicable						
Boiling Point:		applicable pH		Not applicable				
Water solubility : Insoluble								
	<b>10.</b> S	STABILITY AND REACT	TIVITY					
Stability : Stable.								
Hazardous Polymerization	Hazardous Polymerization : Will not occur.							
Conditions to avoid : Keep away from oxidizing agents and open flame. To avoid thermal								
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Incompatible Materials:Incompatible with strong acids and oxidizing agents.Hazardous decomposition<br/>products:Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen<br/>(NOx), other hazardous materials, and smoke are all possible.

decomposition, do not overheat.

#### 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.

Carcinogenicity

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.

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

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	No data available	
	3. DISPOSAL CONSIDERATIONS	
Product	Like most thermoplastic plastics the product can be recycled. Where possible recycling is preferred to disposal or incineration. The	

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	generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
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	
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 Hazardou	s Substances (40 CFR 302)
Not applicable	
California Proposition 65	: Not applicable
SARA Title III Section 302 E	xtremely Hazardous Substance
Unless specific chemicals are	identified under this section, this product is Not Applicable under this regulation
SARA Title III Section 313 T	oxic Chemicals:
Unless specific chemicals are	identified under this section, this product is Not Applicable under this regulation
Canadian Regulations:	
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National Pollutant Relea	se n	iventory (NPRI)	CAS-No.	Weight %	NPRI I	D#
Aluminum oxide			1344-28-1	0.10 - 1.00	13	0#
WHMIS Classification	:	D2A				
DSL	:		s of this product a (DSL) or are exe		ian Domestio	2
National Inventories:						
Australia AICS	:	Not determined				
China IECS	:	Listed				
Europe EINECS	:	Not determined				
Japan ENCS	:	Not determined				
Korea KECI	:	Not determined				
Philippines PICCS	:	Not determined				
		16. OTHER IN	NFORMATION			

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.