PolvOne

## **MATERIAL SAFETY DATA SHEET** SAND V3

Version Number 1.0 Revision Date 02/04/2008

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### **1. PRODUCT AND COMPANY IDENTIFICATION**

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

Telephone:Emergency telephone:	oduct Stewardship (770) 271-5902 IEMTREC 1-800-424-9300 (24hrs for a accident).	spill, leak, fire, exposure
Product name :	ND V3	
Product code :	10108280	
Chemical Name :	xture	
CAS-No.	xture	
Product Use :	ustrial Applications	

## 2. COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Manganese antimony titanium brown rutile (C.I. Pigment Yellow 164)	68412-38-4	1 - 5
Calcium carbonate	1317-65-3	1 - 5
Calcium stearate	1592-23-0	1 - 5
Silica, amorphous, fumed, crystal-free	112945-52-5	1 - 5
Rutile, antimony chromium buff	68186-90-3	5 - 10
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 enduser (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure.

### POTENTIAL HEALTH EFFECTS

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



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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. 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 seek 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, Foam.</li> </ul>
Special Fire Fighting Procedures	: Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.
Unusual Fire/Explosion Hazards	<ul> <li>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.</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



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	plastic, cardboard or metal containers for disposal. Refer to Secti 13 of this MSDS for proper disposal methods.	on
	7. HANDLING AND STORAGE	
Handling	: Take measures to prevent the build up of electrostatic charge. He only in areas with appropriate exhaust ventilation.	at
Storage	: Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place.	on
8. EX	POSURE CONTROLS/PERSONAL PROTECTION	
Respiratory protection	: No personal respiratory protective equipment normally 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)		

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Components	Value	Exposure time	Exposure type	List:
Manganese antimony titanium brown rutile (C.I. Pigment Yellow 164)	5 mg/m3	Ceiling Limit Value:	as Mn	OSHA Z1
	0.2 mg/m3	Time Weighted Average (TWA):	as Mn	ACGIH
	0.2 mg/m3	Time Weighted Average (TWA):	as Mn	MX OEL
	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	ACGIH
	0.5 mg/m3	PEL:	as Sb	OSHA Z1
	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	MX OEL
Calcium carbonate	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	10 mg/m3	Time Weighted Average (TWA):		MX OEL
	20 mg/m3	Short Term Exposure Limit (STEL):		MX OEL
Calcium stearate	10 mg/m3	Time Weighted Average (TWA):		ACGIH
Rutile, antimony chromium buff	0.5 mg/m3	Time Weighted Average (TWA):	as Cr	ACGIH
	0.5 mg/m3	PEL:	as Cr	OSHA Z1
	0.5 mg/m3	Time Weighted Average (TWA):		MX OEL
	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	ACGIH
	0.5 mg/m3	PEL:	as Sb	OSHA Z1
	0.5 mg/m3	Time Weighted Average (TWA):	as Sb	MX OEL
Silica, amorphous, fumed, crystal-free	0.8 mg/m3	Time Weighted Average (TWA):		Z3
	10 mg/m3	Time Weighted Average (TWA):	Inhalable particulate.	MX OEL
	3 mg/m3	Time Weighted Average (TWA):	Respirable dust.	MX OEL
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):	as Ti	MX OEL
	20 mg/m3	Short Term Exposure Limit (STEL):	as Ti	MX OEL

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form

: Solid

Evaporation rate

: Not applicable

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: pellets

TAN

:

Very faint

: Insoluble

:

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:

:

:

: Not determined

: Not applicable

Stable.

Will not occur.

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Appearance
Color
Odour
Melting point/range
<b>Boiling Point:</b>

Water solubility

## Stability

Hazardous Polymerization Conditions to avoid

Incompatible Materials

Hazardous decomposition

products

# monoxide and hydrogen chloride. **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.

Prevent cross contamination of feedstocks.

### Toxicity Overview

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

CAS-No.	Chemical Name	Effect	Target Organ
68412-38-4	Manganese antimony	Irritant	Eyes, Skin.
	titanium brown rutile (C.I.		
	Pigment Yellow 164)		
1317-65-3	Calcium carbonate	Irritant	Eyes, Skin.
		Systemic effects	Eyes, Skin, Respiratory
			system.
112945-52-5	Silica, amorphous, fumed,	Irritant	Eyes, Respiratory system.
	crystal-free		
68186-90-3	Rutile, antimony	Irritant	Eyes, Skin, Respiratory
	chromium buff		system.

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Not determined

Not established

: Not applicable

: Not applicable

: Not applicable

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Specific Gravity

Vapour pressure

Vapour density

Keep away from oxidizing agents and open flame. To avoid thermal

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.

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

Bulk density

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**10. STABILITY AND REACTIVITY** 

decomposition, do not overheat.



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13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.

## LC50 / LD50

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

CAS-No.	Chemical Name	Route	Value	Species
1592-23-0	Calcium stearate	Oral LD50	> 10 gm/kg	rat
112945-52-5	Silica, amorphous, fumed,	Oral LD50	3,160 mg/kg	rat
	crystal-free			

### 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.

### Additional Health Hazard Information:

Rutile, antimony chromium buff 68186-90-3 Can cause eye irritation. Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Additional symptoms of skin contact may include: antimony measles (a red, pimply rash).

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
	13. DISPOSAL CONSIDERATIONS
Product	: 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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Contaminated packaging	:	Recycling is preferred material has the respon transportation and disp state/provincial and lo	nsibility for proper posal in accordance	
	1	4. TRANSPORT INF	ORMATION	
U.S. DOT Classification	:	Not regulated for trans	sportation.	
ICAO/IATA (air)	:	Refer to specific regul	ation.	
IMO / IMDG (maritime)	:	Refer to specific regul	ation.	
	15	. REGULATORY INI	FORMATION	
US Regulations:				
OSHA Status	:	Classified as hazardou	s based on compon	ents.
TSCA Status	:	All components of the TSCA Inventory.	s product are listed	on or exempt from the
US. EPA CERCLA Hazardou	is Sub	stances (40 CFR 302)		
Not applicable				
California Propositior 65	ı :	Not applicable		
SARA Title III Section 302 E	Extrem	ely Hazardous Substanc	e	
Unless specific chemicals are	identi	fied under this section,	this product is Not .	Applicable under this regulation
SARA Title III Section 313 T	`oxic (	chemicals:		
	identi	fied under this section,		Applicable under this regulation
Chemical Name MANGANESE COMPOU COMPOUNDS	NDSA	NTIMONY	CAS-No. 68412-38-4	Weight %           1.00 - 5.00
CHROMIUM III COMPO COMPOUNDS	UNDS	ANTIMONY	68186-90-3	5.00 - 10.00

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Canadian Regulations:

National Pollutant Release Inventory (NPRI)			
Chemical Name	CAS-No.	Weight %	NPRI ID#
Manganese antimony titanium brown rutile (C.I. Pigment Yellow 164)	68412-38-4	1.00 - 5.00	147
		1.00 - 5.00	17
Rutile, antimony chromium buff	68186-90-3	5.00 - 10.00	69
		5.00 - 10.00	17

WHMIS Classification : D2A

WHMIS Ingredient Disclosure List

CAS-No.	
68412-38-4	
68186-90-3	
112945-52-5	

:

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 used in combination with any other materials or in any process, unless specified in the text.