# Manus Products, Inc.

# MANUS-BOND 76-AMC; (White, gray, black) Self-Leveling Concrete Floor Joint Sealant

# 1. PRODUCT AND COMPANY IDENTIFICATION

# PRODUCT IDENTIFICATION

Product Identification Number ...... N/A

MANUFACTURER EMERGENCY TELEPHONE NUMBER

Manus Products, Inc. CHEMTREC: 800-424-9300

866 Industrial Blvd West

Waconia, MN 55387 Plant Telephone: 952 442-3323

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WEIGHT %
Calcium Carbonate	1317-65-3	< 70
Proprietary Polymers		< 30
Titanium Dioxide	13463-67-7	<10
Carbon Black (gray and black only)	1333-86-4	<1

See Section 15 of this MSDS for OSHA Regulatory Status

# 3. HAZARDS IDENTIFICATION

### **EMERGENCY OVERVIEW**

Heavy paste with mild odor; various colors: white, grey and black. Can cause skin and eye irritation.

Combustible Material (will burn). In case of fire, use foam, dry chemical, CO<sub>2</sub>.

# POTENTIAL HEALTH EFFECTS

# PRIMARY ROUTE(S) OF ENTRY

Inhalation (breathing); eye and skin contact.

CAUTION! Can cause skin and eye irritation;.

# SYMPTOMS OF EXPOSURE

Inhalation: Breathing large amounts of vapor may be harmful.

Eye Contact: Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin Contact: Can cause skin irritation. Symptoms may include redness and burning of skin.

MANUS-BOND 76-AMC; (White, gray, black)

Ingestion: Swallowing large amounts may be harmful.

# CHRONIC EFFECTS

Over exposure to a component of this material has been suggested as a cause of liver abnormalities in laboratory animals...

# MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Eye or skin disease.

# REPORTED AS CARCINOGEN OR POTENTIAL CARCINOGEN

\_\_ Not Applicable \_\_ OSHA
\_\_ National Toxicology Program (NTP) \_\_ International Agency for Research on Cancer (IARC)
(See Section 11)

# 4. FIRST AID MEASURES

Inhalation: Remove from area to fresh air. If not breathing, clear airway and start mouth-to-mouth

artificial respiration or use a bag-mask respirator. Get immediate medical attention. If victim is having trouble breathing, transport to medical care and, if available, give

supplemental oxygen.

Eye contact: Immediately rinse eyes with water. Remove any contact lenses. Hold eyelids apart to ensure

rinsing of the entire surface of the eyes and lids with water. Continue flushing eyes with running

water for at least 15 minutes. Get medical attention if irritation develops.

Skin Contact: Wash affected areas with large amounts of running water, and soap if available, for 15 minutes.

Remove contaminated clothing and shoes. Wash clothing and decontaminate shoes before reuse.

Get medical attention if irritation develops and persists.

Ingestion: **DO NOT** induce vomiting. Do not give anything by mouth to an unconscious or convulsing

person. Get immediate medical attention.

NOTE TO PHYSICIAN - None

# 5. FIRE FIGHTING MEASURES

Flash Point and Method.....>200 °F.

### GENERAL HAZARD

This product is combustible.

# **EXTINGUISHING MEDIA**

For small fires, use foam, CO<sub>2</sub>, or dry chemical. For large fires, use water spray, fog, or foam.

# SPECIAL FIREFIGHTING INSTRUCTIONS

Move containers from area if it can be done without risk.

# FIREFIGHTING EQUIPMENT

As in any fire, wear NIOSH approved, positive-pressure self-contained breathing apparatus and full protective gear.

# **6. ACCIDENTAL RELEASE MEASURES**

Wear appropriate protective equipment (See Section 8). Ventilate area. Observe all local, state and federal regulations.

# 7. HANDLING AND STORAGE

# **HANDLING**

Wear appropriate protective equipment (See Section 8). Avoid contact with eyes, skin and clothes. Avoid breathing vapors. Keep container closed when not in use. Use with sufficient ventilation to keep area below established exposure levels. Wash thoroughly after handling.

Product is combustible.

# **STORAGE**

Keep container tightly closed. Isolate from incompatible materials (see Sect. 10).

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **ENGINEERING CONTROLS**

Use local exhaust or general dilution ventilation system.

# PERSONAL PROTECTION

Respirator: Use NIOSH approved equipment only. For exposure above the exposure limit, use a

respirator that has been selected by an industrial hygienist or other technically qualified person for the specific work conditions. If respirators are used, OSHA requires compliance

with its respiratory program.

Eye Protection: Wear vented safety goggles or safety glasses.

Gloves: Nitrile gloves.

Clothing: Wear clothing that will protect the skin from exposure to this chemical. During emergency or

while making repairs, wear clothing that will not allow this chemical to penetrate.

Other: Eye wash.

# **EXPOSURE CONTROLS**

COMPONENT	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
Titanium Dioxide*	15 mg/m <sup>3</sup>	N/E	$10 \text{ mg/m}^3$	N/E
Carbon Black*	$3.5 \text{ mg/m}^3$	N/E	$3.5 \text{ mg/m}^3$	N/E
Calcium Carbonate*	15 mg/m³	N/E	10 mg/m <sup>3</sup>	N/E

• Exposure limits are provided for information only. This chemical is not in a respirable form in this product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

State	Paste (S.L.)	pH	NA
Color	N/A	Vapor Density	N/E
Odor	Mild	Reactivity in Water	Incompatible
Melting Point °F	N/E	Specific Gravity	~1.6 <b>-</b> 1.7
Boiling Point	N/E	Water Solubility	Slightly soluble

# 10. STABILITY AND REACTIVITY

# **REACTIVITY**

Stable.

# **INCOMPATIBILITIES**

Avoid contact with acids and oxidizers.

# HAZARDOUS DECOMPOSITION PRODUCTS

May form oxides of carbon and various unidentified organic compounds.

# **CONDITIONS TO AVOID**

Avoid temperatures above 120 °F.

# 11. TOXICOLOGICAL INFORMATION

**For Carbon Black:** IARC – Group 2B (Possibly carcinogenic to humans)

**For Product:** Not established.

### For Titanium Dioxide

Trochimowicz, et al., J. Appl. Tox., 8, 383-385 (1988).

Oral LD<sub>50</sub> (rat) >25 g/kg Dermal LD<sub>50</sub> (rabbit) >10 g/kg

Inhalation LC<sub>50</sub> (rat) >6.82 mg/l (4 hr)

E.I. DuPont's Haskel Toxicology Laboratory conducted lifetime inhalation studies of respirable titanium dioxide at levels up to 250 mg/m³; no compound related clinical signs of toxicity were seen in the exposed animals. Slight pulmonary fibrosis was seen at 50 to 250 mg/m³ respirable titanium dioxide but not at 10 mg/m³. There was no evidence of cancer in animals exposed to 10 or 50 mg/m³ respirable titanium dioxide. Microscopic lung tumors were seen in 17 percent of the rats exposed to 250 mg/m³ respirable titanium dioxide. The lung tumors observed in the rats were different from common human lung cancers, relative to anatomic type and location, and occurred only at dust levels which overwhelmed the animals lung clearance mechanism and therefore, are of questionable biological relevance for man.

Results of a DuPont epidemiology study showed that employees who had been exposed to titanium dioxide pigments were at no greater risk of developing lung cancer than were employees who had not been exposed to titanium dioxide pigments. No pulmonary fibrosis was found in any of the employees and no associations were observed between titanium dioxide pigment exposure and chronic respiratory disease or lung abnormalities. Based on the results of this study, DuPont concluded that titanium dioxide pigment will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.

The National Cancer Institute (NCI) conducted a feed study in rats and mice in which either 25,000 or 50,000 parts per million titanium dioxide was given in their diet for two years. Under the condition of the NCI test, titanium dioxide did not cause cancer by the oral route.

Titanium dioxide has been classified by the American Congress of Governmental Industrial Hygienists (ACGIH) as an A4 Carcinogen - *Not Classifiable as a Human Carcinogen*. ("1999 TLVs and BEIs," p. 67). It has been classified by the International Agency for Research on Cancer (IARC) as Group 3 - *Not Classifiable as to Its Carcinogenicity to Humans*. (IARC Monograph 47, 1989).

12. ECOLOGICAL	INFORMATION						
For Product:							
13. DISPOSAL CO	NSIDERATION	S					
RCRA Waste Code:.	No	ot Regulated.	Observe all	applicable	federal, s	tate, and local regul	ations.
14. TRANSPORT I	NFORMATION						
DOT Proper Shipping	g NameNo	ot regulated.					
15. REGULATORY	'INFORMATION	N					
OSHA HAZARD CO	OMMUNICATIO	N STANDAR	D (29 CFR	1910.120	00)		
Hazardous		_ Non-Haza	rdous				
CERCLA/SUPERF	UND (40 CFR 1	17, 302)					
	Chemical Name RQ (lbs)/(kg)						
N/A					N/A		
SARA EXTREMEL	Y HAZARDOUS	SUBSTANC	ES (40 CF	R 355)			
	Chemical Name TPG		TPQ (1	bs)	RQ (lbs)		
N/A				N/A	A	N/A	
SARA HAZARD CA	ATEGORIES (40	CFR 370)					
$\sqrt{\Lambda}$ Acute	_ Chronic	_ Fire	Press	ure _	Reactive	_ None	
SARA TOXIC CHE	MICALS (40 CF	R 372)					
	Chemical	Name		CAS Nu	mber	%	
N/A				N/A	-	N/A	
			L.		L		

# WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (CPR Section (33))

This product has been classified	l according to the hazard	d criteria of the Contr	rolled Products Regula	ations, and the
MSDS contains all required info	ormation.			

Controlled Product: Classification: D2B	Not a Controlled Produc
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# **INVENTORY STATUS**

The ingredients of this chemical are listed on the US TSCA Chemical Substance Inventory and the Canadian Domestic Substances List.

# TOXIC SUBSTANCES CONTROL ACT

No specific regulations apply.

# STATE REGULATIONS

California Proposition 65	Crystalline Silica – Warning – This chemical is known to the State
_	of California to cause cancer.
Massachusetts Right to Know List	Carbon Black, Titanium Dioxide
Minnesota Hazardous Substance List	Carbon Black, Titanium Dioxide
New Jersey Right to Know List	Carbon Black (SN 0342), Titanium Dioxide (SN 1861)
Pennsylvania Right to Know List	Carbon Black, Titanium Dioxide
Rhode Island Hazardous Substance List	Carbon Black, Titanium Dioxide

# **16. OTHER INFORMATION**

# **ABBREVIATIONS**

C - Ceiling limit

LC<sub>Lo</sub> - The lowest concentration of a substance in air that will kill a test animal within a certain exposure period.

LC<sub>50</sub> - The concentration of a substance in air that will kill 50% of test animals within a certain exposure period.

 $LD_{50}$  - The dose that causes death in 50% of test animals.

N/A - Not applicable N/D - Not determined N/E - Not established N/K - Not known

NAERG - North American Emergency Response Guidebook

RQ - Reportable Quantity

TPQ - Threshold Planning Quantity

# PREPARATION INFORMATION

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