

# Safety Data Sheet

Material Name: Manus Bond 75-AM NSF61

SDS ID: MAN-011

## Section 1 - PRODUCT AND COMPANY IDENTIFICATION

### Material Name

Manus Bond 75-AM NSF61

### Product Use

sealant

### Restrictions on Use

None known

### Details of the supplier of the safety data sheet

Manus Products, Inc.

866 Industrial Blvd. West

Waconia, MN 55387

Phone: (952) 442-3323

Emergency Phone #: (800) 424-9300

## Section 2 - HAZARDS IDENTIFICATION

### Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Serious Eye Damage/Eye Irritation - Category 2A

Carcinogenicity - Category 2

Reproductive Toxicity - Category 1B

### GHS Label Elements

#### Symbol(s)



### Signal Word

Danger

### Hazard Statement(s)

Causes serious eye irritation.

Suspected of causing cancer.

May damage fertility or the unborn child.

### Precautionary Statement(s)

#### Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear eye protection/face protection.

Wash thoroughly after handling.

#### Response

IF exposed or concerned: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

#### Storage

Store locked up.

#### Disposal

# Safety Data Sheet

Material Name: Manus Bond 75-AM NSF61

SDS ID: MAN-011

Dispose of contents/container in accordance with local/regional/national/international regulations.

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
1317-65-3	Calcium carbonate	30-60
471-34-1	Carbonic acid, calcium salt (1:1)	10-30
68515-49-1	1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	5-10
13463-67-7	Titanium dioxide	0.1-1
77-58-7	Dibutyltin dilaurate	0.1-1
1333-86-4	Carbon black	<0.1

## Section 4 - FIRST AID MEASURES

### Inhalation

IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

### Skin

IF ON SKIN. Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash before reuse.

### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention

### Ingestion

If a large amount is swallowed, get medical attention.

### Most Important Symptoms/Effects

#### Acute

Causes serious eye irritation.

#### Delayed

Reproductive Effects. Suspected of causing cancer.

### Note to Physicians

Treat symptomatically and supportively

## Section 5 - FIRE FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Use carbon dioxide, regular dry chemical, regular foam or water

#### Unsuitable Extinguishing Media

None known.

### Hazardous Combustion Products

Oxides of carbon. various organic fragments.

### Advice for firefighters

# Safety Data Sheet

Material Name: Manus Bond 75-AM NSF61

SDS ID: MAN-011

May burn, but does not ignite readily.

## Fire Fighting Measures

Move material from fire area if it can be done without risk Cool containers with water spray until well after the fire is out. Use extinguishing agents appropriate for surrounding fire Dike for later disposal Stay upwind and keep out of low areas

## Special Protective Equipment and Precautions for Firefighters

Wear protective clothing and equipment suitable for the surrounding fire, including helmet, face mask, and self-contained breathing apparatus.

## Section 6 - ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8. Keep unnecessary people away, isolate hazard area and deny entry. Only personnel trained for the hazards of this material should perform clean up and disposal.

### Methods and Materials for Containment and Cleaning Up

Ventilate the area. Stop leak if possible without personal risk. Absorb with earth, sand or other non-combustible material and transfer to container. Dispose in accordance with all applicable regulations.

### Environmental Precautions

Do not flush into sanitary sewer systems, drains or surface water. Avoid release to the environment.

## Section 7 - HANDLING AND STORAGE

### Precautions for Safe Handling

Do not handle until all safety precautions have been read and understood. Avoid breathing vapor or mist. Avoid contact with eyes and skin. Do not eat, drink or smoke when using this product. Always wear recommended personal protective equipment. Wear personal protective clothing and equipment, see Section 8.

### Conditions for Safe Storage, Including any Incompatibilities

Store locked up.

Store and handle in accordance with all current regulations and standards Store in a cool dry place Store in a well-ventilated area Keep container tightly closed Empty containers may contain product residue Keep separated from incompatible substances

### Incompatible Materials

Strong oxidizer.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### Component Exposure Limits

Calcium carbonate	1317-65-3
NIOSH:	10 mg/m <sup>3</sup> TWA total dust ; 5 mg/m <sup>3</sup> TWA respirable dust
OSHA (US):	15 mg/m <sup>3</sup> TWA total dust ; 5 mg/m <sup>3</sup> TWA respirable fraction
Mexico:	10 mg/m <sup>3</sup> TWA VLE-PPT
	20 mg/m <sup>3</sup> STEL [PPT-CT ]
Carbonic acid, calcium salt (1:1)	471-34-1

# Safety Data Sheet

**Material Name: Manus Bond 75-AM NSF61**

**SDS ID: MAN-011**

NIOSH:	10 mg/m3 TWA total dust ; 5 mg/m3 TWA respirable dust
<b>Titanium dioxide</b>	<b>13463-67-7</b>
ACGIH:	10 mg/m3 TWA
NIOSH:	2.4 mg/m3 TWA (CIB 63 ) fine ; 0.3 mg/m3 TWA (CIB 63 ) ultrafine, including engineered nanoscale
	5000 mg/m3 IDLH
OSHA (US):	15 mg/m3 TWA total dust
Mexico:	10 mg/m3 TWA VLE-PPT as Ti
	20 mg/m3 STEL [PPT-CT ] as Ti
<b>Carbon black</b>	<b>1333-86-4</b>
ACGIH:	3 mg/m3 TWA inhalable particulate matter
NIOSH:	3.5 mg/m3 TWA ; 0.1 mg/m3 TWA (Carbon black in presence of Polycyclic aromatic hydrocarbons ) as PAH
	1750 mg/m3 IDLH
OSHA (US):	3.5 mg/m3 TWA
Mexico:	3.5 mg/m3 TWA VLE-PPT
	7 mg/m3 STEL [PPT-CT ]

**ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)**

There are no biological limit values for any of this product's components.

**Engineering Controls**

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/face protection**

Wear chemical safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**Skin Protection**

Wear appropriate chemical resistant clothing.

**Respiratory Protection**

In case of inadequate ventilation wear respiratory protection.

**Glove Recommendations**

Wear appropriate chemical resistant gloves

**Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	solid	<b>Physical State</b>	solid
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# Safety Data Sheet

Material Name: Manus Bond 75-AM NSF61

SDS ID: MAN-011

<b>Odor</b>	Not available	<b>Color</b>	Not available
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	Not available
<b>Boiling Point Range</b>	Not available	<b>Freezing point</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Flammability (solid, gas)</b>	Not available
<b>Autoignition Temperature</b>	Not available	<b>Flash Point</b>	Not available
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition temperature</b>	Not available
<b>Upper Explosive Limit</b>	Not available	<b>Vapor Pressure</b>	Not available
<b>Vapor Density (air=1)</b>	Not available	<b>Specific Gravity (water=1)</b>	Not available
<b>Water Solubility</b>	Not available	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Kinematic viscosity</b>	Not available
<b>Solubility (Other)</b>	Not available	<b>Density</b>	Not available
<b>Physical Form</b>	solid	<b>Molecular Weight</b>	Not available

## Section 10 - STABILITY AND REACTIVITY

### Reactivity

No reactivity hazard is expected

### Chemical Stability

Stable at normal temperatures and pressure

### Possibility of Hazardous Reactions

Will not polymerize

### Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition Avoid contact with incompatible materials

### Incompatible Materials

Strong oxidizer.

### Hazardous decomposition products

oxides of carbon. various organic fragments.

## Section 11 - TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

#### Inhalation

May cause respiratory tract irritation.

#### Skin Contact

May cause skin irritation. Repeated exposure may cause skin dryness or cracking. May be absorbed through the skin.

#### Eye Contact

May cause irritation, redness, and stinging.

# Safety Data Sheet

Material Name: Manus Bond 75-AM NSF61

SDS ID: MAN-011

## Ingestion

May cause nausea, vomiting and stomach pain.

## Acute and Chronic Toxicity

### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

#### Carbonic acid, calcium salt (1:1) (471-34-1)

Oral LD50 Rat 6450 mg/kg

#### 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich (68515-49-1)

Oral LD50 Rat >60000 mg/kg (no deaths occurred )

Dermal LD50 Rabbit 16000 mg/kg

#### Titanium dioxide (13463-67-7)

Oral LD50 Rat >10000 mg/kg

#### Dibutyltin dilaurate (77-58-7)

Oral LD50 Rat 45 mg/kg

Dermal LD50 Rabbit 630 mg/kg

#### Carbon black (1333-86-4)

Oral LD50 Rat >15400 mg/kg

## Product Toxicity Data

### Acute Toxicity Estimate

Dermal	> 2000 mg/kg
Inhalation - Dust and Mist	> 5 mg/L
Oral	> 2000 mg/kg

### Immediate Effects

Causes serious eye irritation.

### Delayed Effects

Suspected of causing cancer. May damage fertility or the unborn child.

### Irritation/Corrosivity Data

Causes serious eye irritation.

### Respiratory Sensitization

No information available for the product.

### Dermal Sensitization

No information available for the product.

### Component Carcinogenicity

<b>Titanium dioxide</b>	<b>13463-67-7</b>
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 93 [2010] ; Monograph 47 [1989] (Group 2B (possibly carcinogenic to humans))
DFG:	Category 3A (could be carcinogenic for man ;inhalable fraction with the exception of ultra small particles )
OSHA:	Present
NIOSH:	potential occupational carcinogen

# Safety Data Sheet

**Material Name: Manus Bond 75-AM NSF61**

**SDS ID: MAN-011**

<b>Carbon black</b>	<b>1333-86-4</b>
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
IARC:	Monograph 93 [2010] ; Monograph 65 [1996] (Group 2B (possibly carcinogenic to humans))
DFG:	Category 3B (could be carcinogenic for man ;inhalable fraction )
OSHA:	Present
NIOSH:	potential occupational carcinogen

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.

**Germ Cell Mutagenicity**

No information available for the product.

**Tumorigenic Data**

No data available

**Reproductive Toxicity**

May damage fertility or the unborn child.

**Specific Target Organ Toxicity - Single Exposure**

No target organs identified.

**Specific Target Organ Toxicity - Repeated Exposure**

No target organs identified.

**Aspiration hazard**

No information available for the product

**Medical Conditions Aggravated by Exposure**

No data available.

**Section 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity**

Toxic to aquatic life with long lasting effects.

**Component Analysis - Aquatic Toxicity**

<b>1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich</b>	<b>68515-49-1</b>
Fish:	LC50 96 h Pimephales promelas >0.66 mg/L [static ] ; LC50 96 h Pimephales promelas >1 mg/L [flow-through ] ; LC50 96 h Oncorhynchus mykiss >1 mg/L [static ] ; LC50 96 h Oncorhynchus mykiss >0.62 mg/L [flow-through ] ; LC50 96 h Lepomis macrochirus >0.55 mg/L [static ]
Algae:	EC50 96 h Pseudokirchneriella subcapitata >1.3 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna >0.18 mg/L IUCLID

# Safety Data Sheet

Material Name: Manus Bond 75-AM NSF61

SDS ID: MAN-011

## Persistence and Degradability

No information available for the product.

## Bioaccumulative Potential

No information available for the product.

## Mobility

No information available for the product.

## Bioconcentration

No information available for the product.

## Section 13 - DISPOSAL CONSIDERATIONS

### Disposal Methods

Dispose in accordance with all applicable federal, state/regional and local laws and regulations.

### Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

## Section 14 - TRANSPORT INFORMATION

### US DOT Information:

UN/NA #: Not regulated.

### International Bulk Chemical Code

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Titanium dioxide	13463-67-7
IBC Code:	Category Z (slurry )

## Section 15 - REGULATORY INFORMATION

### U.S. Federal Regulations

None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

### SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories

Carcinogenicity; Reproductive Toxicity; Serious Eye Damage/Eye Irritation

### U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Calcium carbonate	1317-65-3	No	Yes	Yes	Yes	Yes
Titanium dioxide	13463-67-7	No	Yes	Yes	Yes	Yes
Carbon black	1333-86-4	Yes	Yes	Yes	Yes	Yes

### California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)



# Safety Data Sheet

Material Name: Manus Bond 75-AM NSF61

SDS ID: MAN-011



## WARNING

This product can expose you to chemicals including Titanium dioxide, Carbon black , which are known to the State of California to cause cancer and 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich , which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

<b>1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich</b>	<b>68515-49-1</b>
Repro/Dev. Tox	developmental toxicity , 4/20/2007
<b>Titanium dioxide</b>	<b>13463-67-7</b>
Carc:	carcinogen , 9/2/2011 (airborne, unbound particles of respirable size )
<b>Carbon black</b>	<b>1333-86-4</b>
Carc:	carcinogen , 2/21/2003 (airborne, unbound particles of respirable size )

### Canada Regulations

#### Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

<b>Dibutyltin dilaurate</b>	<b>77-58-7</b>
	1 %
<b>Carbon black</b>	<b>1333-86-4</b>
	1 %

### Component Analysis - Inventory

#### Calcium carbonate (1317-65-3)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	NSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

#### Carbonic acid, calcium salt (1:1) (471-34-1)

# Safety Data Sheet

**Material Name: Manus Bond 75-AM NSF61**

**SDS ID: MAN-011**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

**1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich (68515-49-1)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

**Titanium dioxide (13463-67-7)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

**Dibutyltin dilaurate (77-58-7)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

**Carbon black (1333-86-4)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

**Section 16 - OTHER INFORMATION**

**Preparation Date**

8/13/2018

**Key / Legend**

# Safety Data Sheet

Material Name: Manus Bond 75-AM NSF61

SDS ID: MAN-011

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) , KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; Ne - Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL - Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL - Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

## Other Information

### Disclaimer:

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.