**Product Identifier: Manus Bond 73GP Aluminum Gray** SDS ID: MAN-009

### \* \* \*Section 1 - IDENTIFICATION\* \* \*

### **Product Identifier:**

Manus Bond 73GP Aluminum Gray

#### **Recommended Use**

adhesives / sealant

#### Restrictions on Use

None known.

#### **Manufacturer Information**

Manus Products, Inc. 866 Industrial Blvd. West Waconia, MN 55387

Phone: (952) 442-3323

Emergency # (800) 424-9300

# \* \* \*Section 2 - HAZARD(S) IDENTIFICATION\* \* \*

#### **GHS Classification**

Not a hazardous substance or mixture.

### **GHS Label element**

Not a hazardous substance or mixture. Precautionary Statements : **Prevention:** 

P271 Use only outdoors or in a well-ventilated area.

### Other hazards

None known.

# \* \* \*Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS\* \* \*

Substance / Mixture : Mixture

Chemical nature : Silicone elastomer

### **Hazardous ingredients**

Chemical Name	CAS-No.	Concentration (%)
Distillates (petroleum), hydrotreated middle	64742-46-7	>= 20 - < 30
Silicon dioxide	7631-86-9	>= 5 - < 10

# \* \* \*Section 4 - FIRST-AID MEASURES\* \* \*

General advice : In the case of accident or if you feel unwell, seek medical ad-

vice immediately.

When symptoms persist or in all cases of doubt seek medical

advice.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : Wash with water and soap as a precaution.

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Get medical attention if symptoms occur.

In case of eye contact : Flush eyes with water as a precaution.

Get medical attention if irritation develops and persists.

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If swallowed, DO NOT induce vomiting.

Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and

delayed

: None known.

Protection of first-aiders

: First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment

when the potential for exposure exists.

Notes to physician : Treat symptomatically and supportively.

# \* \* \*Section 5 - FIRE-FIGHTING MEASURES\* \* \*

Suitable extinguishing media : Water spray

Alcohol-resistant foam

Dry chemical

Carbon dioxide (CO2)

Unsuitable extinguishing

media

None known.

Specific hazards during fire

fighting

Exposure to combustion products may be a hazard to health.

Hazardous combustion prod-

ucts

Carbon oxides Silicon oxides Formaldehyde

Specific extinguishing meth-

ods

: Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment. Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.

Special protective equipment

for fire-fighters

: Wear self-contained breathing apparatus for firefighting if nec-

essarv

Use personal protective equipment.

### \* \* \*Section 6 - ACCIDENTAL RELEASE MEASURES\* \* \*

Personal precautions, protective equipment and emergency procedures :Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.

**Environmental precautions** 

: Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so.

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Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

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cannot be contained.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material.

For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor-

bent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-

mine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.

### \* \* \*Section 7 - HANDLING AND STORAGE\* \* \*

Technical measures : See Engineering measures under EXPOSURE

CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Do not swallow.

Avoid contact with eyes.

Avoid prolonged or repeated contact with skin.

Handle in accordance with good industrial hygiene and safety

practice.

Take care to prevent spills, waste and minimize release to the

environment.

Conditions for safe storage : Keep in properly labeled containers.

Store in accordance with the particular national regulations.

Materials to avoid : Do not store with the following product types:

Strong oxidizing agents

# \* \* \*Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION\* \* \*

# Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Distillates (petroleum), hydrotreated middle	64742-46-7	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL
Silicon dioxide	7631-86-9	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3

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TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3
TWA	6 mg/m3 (Silica)	NIOSH REL

**Engineering measures** 

: Processing may form hazardous compounds (see section

10).

Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

## Personal protective equipment

Respiratory protection

: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide

adequate protection.

Hand protection

Material : Impervious gloves

Remarks : Choose gloves to protect hands against chemicals depending

on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of

workday.

Eye protection : Wear the following personal protective equipment:

Safety glasses

Skin and body protection : Skin should be washed after contact.

Hygiene measures : Ensure that eye flushing systems and safety showers are

located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may re-

quire added precautions.

# \* \* \*Section 9 - PHYSICAL AND CHEMICAL PROPERTIES\* \* \*

Appearance : paste

Color : gray

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Odor : Acetic acid

Odor Threshold : No data available

pН : Not applicable

Melting point/freezing point No data available

Initial boiling point and boiling

range

: Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : Not classified as a flammability hazard

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapor pressure Not applicable

Relative vapor density No data available

: 0.96 Relative density

Solubility(ies)

Water solubility : No data available

Partition coefficient: n-: No data available octanol/water : No data available

: No data available Autoignition temperature

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

: No data available Molecular weight

# \*Section 10 - STABILITY AND REACTIVITY\* \* \*

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac- : Use at elevated temperatures may form highly hazardous

compounds. tions

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Can react with strong oxidizing agents.

Acetic acid is formed upon contact with water or humid air. Hazardous decomposition products will be formed at elevated

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temperatures.

Conditions to avoid : None known.

Incompatible materials : Oxidizing agents

Hazardous decomposition products

Thermal decomposition : Formaldehyde

### \* \* \*Section 11 - TOXICOLOGICAL INFORMATION\* \* \*

## Information on likely routes of exposure

Skin contact Ingestion Eye contact

## **Acute toxicity**

Not classified based on available information.

### **Product:**

Acute inhalation toxicity : Acute toxicity estimate: 8.09 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

## **Ingredients:**

Distillates (petroleum), hydrotreated middle:

: LD50 (Rat): > 5,000 mg/kg Acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): 1.78 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Silicon dioxide:

Acute oral toxicity : LD50 (Rat): > 3,300 mg/kg

Assessment: The substance or mixture has no acute oral tox-

Remarks: Information taken from reference works and the

literature.

Acute inhalation toxicity : LC50 (Rat): > 2.08 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Information taken from reference works and the

literature.

: LD50 (Rabbit): > 5,000 mg/kg Acute dermal toxicity

Assessment: The substance or mixture has no acute dermal

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toxicity

Remarks: Information taken from reference works and

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the literature.

### Skin corrosion/irritation

Not classified based on available information.

### Ingredients:

### Silicon dioxide:

Result: No skin irritation

Remarks: Information taken from reference works and the literature.

### Serious eye damage/eye irritation

Not classified based on available information.

### Ingredients:

### Silicon dioxide:

Result: No eye irritation

Remarks: Information taken from reference works and the literature.

### Respiratory or skin sensitization

Skin sensitization: Not classified based on available information. Respiratory sensitization: Not classified based on available information.

### **Ingredients:**

### Silicon dioxide:

Assessment: Does not cause skin sensitization.

Test Type: Skin: test type not specified

Species: Guinea pig

Remarks: No known sensitising effect.

Information taken from reference works and the literature.

# Germ cell mutagenicity

Not classified based on available information.

### Ingredients:

## Silicon dioxide:

Genotoxicity in vitro : Result: negative

Remarks: Information taken from reference works and the

literature.

Genotoxicity in vivo : Application Route: Ingestion

Result: negative

Remarks: Information taken from reference works and the

literature.

Germ cell mutagenicity -

Assessment

: Animal testing did not show any mutagenic effects.

## Carcinogenicity

Not classified based on available information.

**Product Identifier: Manus Bond 73GP Aluminum Gray** 

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

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human carcinogen by IARC.

**OSHA**No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcino-

gen by OSHA.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

# Reproductive toxicity

Not classified based on available information.

### STOT-single exposure

Not classified based on available information.

## STOT-repeated exposure

Not classified based on available information.

## **Aspiration toxicity**

Not classified based on available information.

#### Ingredients:

### Distillates (petroleum), hydrotreated middle:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

# \* \* \*Section 12 - ECOLOGICAL INFORMATION\* \* \*

# **Ecotoxicity**

No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

## Mobility in soil

No data available

### Other adverse effects

No data available

# \* \* \*Section 13 - DISPOSAL CONSIDERATIONS\* \* \*

## **Disposal methods**

Resource Conservation and

Recovery Act (RCRA)

: This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded

in its purchased form.

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product.

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Empty containers should be taken to an approved waste handling site for recycling or disposal.

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# \* \* \*Section 14 - TRANSPORT INFORMATION\* \* \*

### International Regulation

### **UNRTDG**

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## **Domestic regulation**

#### **49 CFR**

Not regulated as a dangerous good

# \* \* \*Section 15 - REGULATORY INFORMATION\* \* \*

### **EPCRA - Emergency Planning and Community Right-to-Know**

### **CERCLA Reportable Quantity**

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Acetic acid	64-19-7	5000	*
Acetic anhydride	108-24-7	5000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# **US State Regulations**

# Pennsylvania Right To Know

Dimethyl siloxane, hydroxy-terminated	70131-67-8	50 -70 %
Distillates (petroleum), hydrotreated middle	64742-46-7	20 -30 %
Silicon dioxide	7631-86-9	5 - 10 %
Aluminium	7429-90-5	0.1 - 1 %
Acetic acid	64-19-7	0 - 0.1 %
Acetic anhydride	108-24-7	0 - 0.1 %

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# **New Jersey Right To Know**

Dimethyl siloxane, hydroxy-terminated	70131-67-8	50 -70 %
Distillates (petroleum), hydrotreated middle	64742-46-7	20 -30 %
Silicon dioxide	7631-86-9	5 - 10 %
Dimethyl siloxane, trimethylsiloxy-terminated	63148-62-9	1 -5 %

California Prop 65 This product does not contain any chemicals known to the

State of California to cause cancer, birth, or any other

reproductive defects.

## The ingredients of this product are reported in the following inventories:

**TSCA** : All chemical substances in this material are included on or

exempted from listing on the TSCA Inventory of Chemical

Substances.

DSL : All chemical substances in this product comply with the CEPA

1999 and NSNR and are on or exempt from listing on the

Canadian Domestic Substances List (DSL).

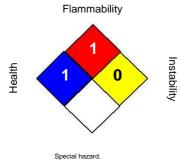
### **Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), NECSI (Taiwan), TSCA (USA)

# \* \* \*Section 16 - OTHER INFORMATION\* \* \*

### **Further information**

# NFPA:



# HMIS III:

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

# Full text of other abbreviations

OSHA Z-1 **NIOSH REL** 

OSHA<sub>P0</sub> OSHA Z-3

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: USA. NIOSH Recommended Exposure Limits NIOSH REL / TWA

: USA. OSHA - TABLE Z-1 Limits for Air Contaminants

- 1910.1000

NIOSH REL / ST : USA. Occupational Exposure Limits (OSHA) - Table Z-1

Lim-its for Air Contaminants

OSHA P0 / TWA : USA. Occupational Exposure Limits (OSHA) - Table Z-3 OSHA Z-1 / TWA

Min-eral Dusts

OSHA Z-3 / TWA : Time-weighted average concentration for up to a 10-

hour workday during a 40-hour workweek

Sources of key data used to compile the Material Safety

Data Sheet

STEL - 15-minute TWA exposure that should not be

exceeded at any time during a workday

8-hour time weighted average 8-hour time weighted average : 8-hour time weighted average

: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals

Agen-cy, http://echa.europa.eu/

The information provided in this Safety Data Sheet is correct to the best of our knowledge, in-formation and belief at the date of its publication. The information is designed only as a guid-ance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information pro-vided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, un-less specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, in-cluding an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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