

SAFETY DATA SHEET

TM BOND-N-FLASH MASTIC

SECTION 1: MATERIAL IDENTIFICATION AND USE

Manufacturer/Supplier: Clark/Hammerbeam Corporation
Address: 886 Washington Street, PO Box 381, Dedham, MA 02027
Telephone Numbers: Information / Emergency: (781) 461-1946
Effective Date: September 01, 2016
Relevant identified uses of the substance or mixture: Sealant
Material Use: Sealant
Product Name as used on Label: BOND-N-FLASH MASTIC

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture



Signal word: Warning

Hazard Statements:

Skin Irrit. 2 H315 Causes skin irritation

Eye Irrit. 2A H319 Causes serious eye irritation

Classification system: NFPA Ratings (scale 0-4)

Health= 2

Fire= 2

Reactivity = 0

HMIS: Ratings (scale 0-4)

Health = 2

Fire = 2

Physical Hazard = 0

Other hazards: results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with non- hazardous additions

Hazardous components:

471-34-1	Calcium carbonate	10-25%
8042-41-3	Stoddard solvent (mineral spirits)	10-25%
1332-58-7	Kaolin	5-20%
546-93-0	Magnesite	2.5-10%
13463-67-7	Titanium dioxide	1.0%

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1305-78-8	Calcium oxide	1.0%
14808-60-7	Quartz (SiO ₂)	0.5%

Additional information:

It is highly unlikely the powders and pigments compounded within this product pose a hazardous risk from inhalation since they are no longer a respirable particulate. Exposure to these ingredients as used in sealants, putties, bedding compounds and other non-sprayable products is highly unlikely. The concentrations listed are percent by weight.

SECTION 4: FIRST AID MEASURES

Primary Routes of Entry	Inhalation	Skin	Ingestion
	X	X	X

Effects of Overexposure (Acute and short-term)

Skin: Avoid contact with skin. Exposure causes irritation to the skin.

Ingestion: Do not ingest- not meant to be eaten.

Emergency and First Aid Procedures:

Inhalation: Overexposure- remove to fresh air and seek medical attention

Skin: Wipe from skin. Wash affected area thoroughly with soap and water. If redness or irritation develops, obtain medical assistance.

Eyes: Flush with water continuously for twenty (20) minutes. Obtain medical assistance if symptoms persist.

Ingestion: Seek medical assistance immediately.

Information for doctor:

Most important symptoms and effects, both acute and delayed. No further relevant information available.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media

Suitable extinguishing agents: CO₂, extinguishing powder or water spray. Fight larger fires with water spray.

Special hazards arising from the substance or mixture: No further relevant information available.

Fire Fighting Procedures

The use of self-contained breathing apparatus is recommended for firefighters, MSHA/NIOSH (equivalent or approved) and full protective gear as in any fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Containment and Waste Disposal Method: Dispose of contaminated material as waste in accordance with local, state and federal regulations.

Environmental precautions: Do not allow product to reach sewage system or any water course

Personal Precautions, protective equipment and emergency procedures: Ensure adequate ventilation

SECTION 7: HANDLING AND STORAGE

Precautions to Be Taken In Handling:

Open and handle receptacle with care. Keep container closed when not in use. Avoid contact with skin. Keep respiratory protective device available. Wash hands thoroughly after handling especially before eating, drinking, smoking or use of restroom.

Storage:

Material should be kept in its original container. Keep container tightly sealed. Keep away from open flames and high temperatures.

Other Precautions

KEEP OUT OF REACH OF CHILDREN

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Additional information about design of technical systems: No further data available

Control parameters: Components with limit values that require monitoring at workplace:

8052-41-3 Stoddard solvent (mineral spirits)

PEL Long-term value: 2900 MG/m³, 500 ppm

REL Long-term value: 350 ppm

Ceiling limit value: 1800* mg/m³

*15-min

TLV Long-term value: 525 mg/m³ , 100ppm

546-93-0 Magnesite

PEL Long-term value: 15* 5** mg/m³

*total dust **respirable fraction

REL Long-term value : 10* 5** mg/m³

*total dust ** respirable fraction

TLV TLV withdrawn

13463-67-7 Titanium dioxide

PEL Long-term value: 15* mg/m³

*total dust

REL See Pocket Guide App. A

TLV Long-term value: 10 mg/m³

withdrawn from NIC

1305-78-8 Calcium oxide

PEL Long-term value: 5 mg/m³

REL Long-term value: 2 mg/m³

TLV Long-term value: 2 mg/m³

14808-60-7 Quartz (SiO₂)

PEL See Quartz listing

REL Long-term value: 0.05* mg/m³

*respirable dust: See Pocket Guide App. A

TLV Long-term value: 0.025* mg/m³

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100-41-4 Ethylbenzene

PEL Long-term value: 435 mg/m³, 100 ppm

REL Short-term value: 545 mg/m³, 125 ppm

TLV Long-term value: 87 mg/m³, 20 ppm

BEI

Ingredients with biological limit values:

100-41-4 Ethylbenzene

BEI 0.7 g/g creatinine

Medium: urine

Time: end of shift at end of workweek

Parameter: Sum of mandelic acid and phenylglyoxylic acid (non- specific, semi-quantitative)

Medium: end exhaled air

Time: not critical

Parameter: Ethyl benzene (semi-quantitative)

Additional information: the lists that were valid during the creation were used as a basis.

Exposure controls

Personal protective equipment (see listings below)

General protective and hygienic measures:

Keep away from foodstuff, beverages and feed

Immediately remove all soiled and contaminated clothing

Wash hand before breaks and end of work.

Store protective clothing separately

Breathing equipment:

Use approved respiratory protection when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respiratory use limitations specified by the manufacturer.

Protection of hands:

Wear protective gloves. The glove material has to be impermeable and resistant to the product. Due to missing tests, no recommendation as to the glove material can be given.

Eye protection:

Safety glasses with side shields

Body protection:

Protective work clothing

SECTION 9: PHYSICAL/CHEMICAL CHARACTERISTICS

Physical State

Solid

Appearance

Pasty

Color

Gray

Odor

Hydrocarbon-like

Boiling Point

178 Degrees C (352 degrees F)

Freezing Point

N/A.

Specific Gravity 20 Degrees C

1.44 g/cm³ (12.017 lbs/gal)

Melting Point

Undetermined

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Vapor Pressure (mm Hg.)

Not Applicable

Ignition temperature

230 degrees C (446 degrees F)

Danger of Explosion

Does not present an explosion hazard

Auto Ignition

Not self igniting

Flammable Limits

Lower: N/A

Upper: N/A

Viscosity

Dynamic: N/A

Kinematic: >20.5c.St

Vapor Density

5 g/cm³ (41.725 lbs/gal)

Solubility in Water

Insoluble

Solvent content:

Organic solvents: 20%

Solids content: 80.0%

Other information: VOC content= 240g/L

SECTION 10: STABILITY AND REACTIVITY

Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications

Chemical Stability

Possibility of hazardous reactions: No dangerous reactions known

Conditions to avoid: Heat, flames, sparks

Incompatible materials: Reacts with strong oxidizing agents

Hazardous decomposition products: none known

Reactivity: No further relevant information available

SECTION 11: TOXICOLOGICAL

Information on toxicological effects:

Primary irritant effect:

On the skin: May irritate the skin

On the eye: May irritate the eye

Sensitization: No sensitizing effects known

Additional toxicological information: Due to the form of this product, exposure to the potentially carcinogenic components is not expected

Skin: Avoid contact with skin.

Eye: Avoid contact with eye.

Ingestion: Do not eat or put in mouth

Carcinogenic categories

IARC (International Agency for Research on Cancer)

13463-67-7 Titanium dioxide

14808-60-7 Quartz (SiO₂)

NTP (National Toxicology Program)

14808-60-7 Quartz (SiO₂)

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed

SECTION 12: ECOLOGICAL

Toxicity:

Aquatic toxicity: No further relevant information available

Persistence and degradability: No further relevant information available

Behavior in environmental systems:

Bioaccumulative potential: No further relevant information available

Mobility in soil: No further relevant information available

Additional ecological information:

General notes: Do not allow product to reach ground water, water course or sewage system

Results of PBT and vPvB assessment:

PBT: N/A

vPvB: N/A

Other adverse effects: No further relevant information available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods:

Recommendation:

Small amounts can be disposed of with household waste after the product has cured or skinned over. Larger quantities should be disposed of in accordance with state and local regulation.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

UN-Number

DOT, ADR, ADN, IMDG, IATA Not regulated

UN Proper Shipping Name

DOT, ADR, AND, IMDG, IATA Not regulated

Transport Hazard Classes

DOT, ADR, AND, IMDG, IATA Not regulated

Packaging group

DOT, ADR, IMDG, IATA Not regulated

Environmental Hazards:

N/A

Transport/additional information: This product is not classified as a Division 4.1 Flammable Solids according to UN Test N.1 for Readily Combustible Solids

UN “ Model regulation”: Not regulated

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara:

Section 355 (extremely hazardous substances): None of the ingredients is listed

Section 313 (specific toxic chemical listings): None of the ingredients is listed

TSCA (Toxic Substance Control Act): All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements

Proposition 65

Chemicals known to cause cancer: 13463-67-7 titanium dioxide

Chemicals known to cause reproductive toxicity: None of the ingredients is listed

Chemicals known to cause developmental toxicity: None of the ingredients is listed

(DSL) Canada Domestic Substance List: All components of this product are on the DSL or are exempt from DSL requirements

New Jersey Right-to-Know List:

1332-58-7 Kaolin
1317-65-3 Limestone
546-93-0 Magnesite
13463-67-7 Titanium dioxide
1305-78-8 Calcium oxide
14808-60-7 Quartz (SiO₂)

New Jersey Special Hazardous Substance List:

1305-78-8 Calcium oxide
14808-60-7 Quartz (SiO₂)

CO, RI

CA

Pennsylvania Right-to-Know List:

1332-58-7 Kaolin
1317-65-3 Limestone
13463-67-7 Titanium dioxide
1305-78-8 Calcium oxide
14808-60-7 Quartz (SiO₂)

Pennsylvania Special Hazardous Substance List:

None of the ingredients is listed

Carcinogenicity categories:

EPA (Environmental Protection Agency)

None of the ingredients is listed

TLV (Threshold Limit Value established by ACGIH)

1332-58-7 Kaolin
13463-67-7 Titanium dioxide
14808-60-7 Quartz (SiO₂)

NIOSH-Ca (National Institute for Occupational Safety and Health)

13463-67-7 Titanium dioxide
14808-60-7 Quartz (SiO₂)

National regulations:

Water hazard class: Not determined

Chemical safety assessment: A chemical safety assessment has not been carried out.

**SECTION 16: OTHER INFORMATION INCLUDING DATE OF
PREPERATION OR LAST REVISION**

MSDS Summary: 09/01/16 Original Issue

Although the information and recommendations set forth in the Safety Data Sheet are presented in good faith and are believed to be correct as of the date of the SDS, CLARK HAMMERBEAM CORPORATION makes no representation as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will CLARK HAMMERBEAM CORPORATION or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on information set forth in the SDS

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association- USA

HMIS: Hazardous Materials Identification System

LD50: Lethal dose-50 percent

PBT: Persistent Bioaccumulative and Toxic vPvB:

very Persistent and very Bioaccumulative NIOSH:

National Institute for Occupational Safety OSHA:

Occupational Safety and Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

LC50: Lethal Concentration, 50 percent

Skin Irrit. 2: Skin Corrosion/irritation- Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation- Category 2A