

Printing Date 01/17/2018 Revision Number 4 Revision Date 01/17/2018

1 Identification

- · Product identifier
- · Trade name: Parabond M-163
- · Relevant identified uses of the substance or mixture. Adhesive
- · Details of the supplier of the safety data sheet
- · Company information:

H.B. Fuller Construction Products Inc.

1105 S. Frontenac Street

Aurora, IL 60504 Phone: 1-800-552-6225

- · Information department: Environment protection department.
- · Emergency telephone number:

ChemTrec: Day or Night within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02 GHS07

GHS08

· Signal word Danger

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· Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

· Precautionary statements

Obtain special instructions before use.

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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Immediately call a poison center/doctor.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

Call a poison center/doctor if you feel unwell.

Get medical advice/attention if you feel unwell.

Specific treatment (see on this label).

Do NOT induce vomiting.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

In case of fire: Use for extinction: CO2, powder or water spray.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

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

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2 Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.

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· vPvB: Not applicable.

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3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Seam Sealer Adhesive

· Hazardou	· Hazardous components:		
67-64-1	acetone	10-25%	
110-54-3	n-hexane	5-20%	
108-88-3	toluene	2.5-10%	

4 First-aid measures

- · Description of first aid measures
- · After inhalation:

Remove to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for 20 minutes under running water. If eye becomes irritated, obtain medical treatment.

· After swallowing:

Rinse mouth with water.

Do not induce vomiting; immediately call for medical help.

- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

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

Use fire fighting measures that suit the environment.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters

Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

· Protective equipment: Protective clothing and respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste in accordance with federal state and local regulations.

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Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

· PAC-1:		
67-64-1	acetone	200 ppm
110-54-3	n-hexane	260 ppm
108-88-3	toluene	67 ppm
· PAC-2:		
67-64-1	acetone	3200* ppm
110-54-3	n-hexane	2900* ppm
108-88-3	toluene	560 ppm
· PAC-3:		
67-64-1	acetone	5700* ppm
110-54-3	n-hexane	8600** ppm
108-88-3	toluene	3700* ppm

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Open and handle receptacle with care.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep container closed when not in use.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location away from direct heat.
- · Information about storage in one common storage facility:

Keep away from open flames and high temperatures.

Store away from oxidizing agents.

- · Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

67-64-1 acetone

PEL Long-term value: 2400 mg/m³, 1000 ppm

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REL	Long-term value: 590 mg/m³, 250 ppm
TLV	Short-term value: 1187 mg/m³, 500 ppm Long-term value: 594 mg/m³, 250 ppm BEI
110-	54-3 n-hexane
PEL	Long-term value: 1800 mg/m³, 500 ppm
REL	Long-term value: 180 mg/m³, 50 ppm
TLV	Long-term value: 176 mg/m³, 50 ppm Skin; BEI
108-	88-3 toluene
	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift Short-term value: 560 mg/m³, 150 ppm
	Long-term value: 375 mg/m³, 100 ppm
TLV	Long-term value: 75 mg/m³, 20 ppm BEI
_	edients with biological limit values:
	4-1 acetone
BEI	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
110-	54-3 n-hexane
BEI	0.4 mg/L Medium: urine Time: end of shift at end of workweek Parameter: 2.5-Hexanedione without hydrolysis
108-	88-3 toluene
BEI	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene
	0.03 mg/L
	Medium: urine Time: end of shift
	Parameter: Toluene
	0.3 mg/g creatinine Medium: urine Time: end of shift
	Parameter: o-Cresol with hydrolysis (background)

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment (see listings below)
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

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Safety Data Sheet acc. to OSHA HCS

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Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

· Breathing equipment:

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

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

Nitrile rubber, NBR

Chloroprene rubber, CR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

Safety glasses with side shields.



Tightly sealed goggles

· Body protection:

Protective work clothing

Apron

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

· Appearance: Form:

Yellow Color: · Odor: Characteristic · Odor threshold: Not determined. · pH-value: Not determined.

Liquid

· Change in condition Melting point: Undetermined. > 56 °C (>132.8 °F) **Boiling point:** · Flash point: $< -7 \, ^{\circ}C \, (< 19.4 \, ^{\circ}F)$ · Flammability (solid, gaseous): Not applicable. 240 °C (464 °F) · Ignition temperature:

Not determined. · Decomposition temperature:

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Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Flammable limits:	
Lower:	1.2 Vol %
Upper:	13.0 Vol %
Vapor pressure at 20 °C (68 °F):	233 hPa (174.8 mm Hg)
Specific gravity at 20 °C (68 °F):	0.88 g/cm³ (7.3436 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water): Not determined.	
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	48.1 %
Solids content:	Not available.
Other information	SCAQMD Rule 1168: Not VOC compliant
·	Grams VOC less water and exempt compounds per Liter of Material - 275 G/L
	Grams VOC less water and exempt compounds per Liter of Coating - 328 G/L
	SCAQMD Rule 443.1: Grams of VOC per Liter of Material - 481 G/L Grams of VOC per Liter of Coating - 481 G/L

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Heat, flames, sparks.
- · Incompatible materials: Reacts with strong oxidizing agents.
- · Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrocarbons

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11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

120/12000 values that are recevant for classification.			
108-88-3 toluene			
Oral	LD50	5,000 mg/kg (rat)	
Dermal	LD50	12,124 mg/kg (rabbit)	

- Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.

· LD/LC50 values that are relevant for classification.

· on the eve:

Causes serious eye irritation.

Vapors may be irritating to the eyes.

· Sensitization: No sensitizing effects known.

Inhalative LC50/4 h 5,320 mg/l (mouse)

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

108-88-3 toluene

3

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · 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.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes: At present there are no ecotoxicological assessments.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · **vPvB**: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- **Recommendation:** Must be specially treated adhering to official regulations.

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· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

UN-Number	
DOT, IMDG, IATA	UN1133
· UN proper shipping name · DOT, IMDG, IATA	ADHESIVES
· Transport hazard class(es)	
· DOT	
RAMMASE LIQUID	
	3 Flammable liquids
· Label	3
· IMDG, IATA	
Class Label	3 Flammable liquids 3
Packing group DOT, IMDG, IATA	II
Environmental hazards: Special marking (ADR):	Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler): EMS Number:	33 F-E,S-D
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
	This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤ 5 L or ≤ 5 kg or by road, rail, or inland air in nonbulk sizes, provided the packaging meets the general requirements 173.24 and 173.24a.
	The marine pollutant mark is not required when transported in size of ≤ 5 L or ≤ 5 kg.
IATA	The environmentally hazardous substance mark may appear if required by other transport regulations.

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• UN "Model Regulation": UN1133, ADHESIVES, 3, II

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):

110-54-3 n-hexane

108-88-3 toluene

· TSCA (Toxic Substances Control Act):

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

- · TSCA new (21st Century Act) (Substances not listed)
- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

108-88-3 toluene

· (DSL) Canada Dosmestic Substance List

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

· New Jerso	ey Right-to-Know List:	
67-64-1		
	n-hexane	
108-88-3 toluene		
	ey Special Hazardous Substance List:	
67-64-1		F3
	n-hexane	F3
108-88-3	toluene	TE, F3

67-64-1 acetone 110-54-3 n-hexane

108-88-3 toluene

· Pennsylvania Special Hazardous Substance List:

 67-64-1 acetone
 E

 108-88-3 toluene
 E

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· Cancerogenity categories

· ·	
vironmental Protection Agency)	
acetone	I
n-hexane	II
toluene	II
reshold Limit Value established by ACGIH)	
acetone	A4
toluene	A4
rman Maximum Workplace Concentration)	
he ingredients is listed.	
Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
	acetone n-hexane toluene eshold Limit Value established by ACGIH) acetone toluene rman Maximum Workplace Concentration) ne ingredients is listed. Ca (National Institute for Occupational Safety and Health)

- · National regulations:
- · Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, H.B. Fuller Construction Products Inc. makes no representations 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 H.B. Fuller Construction Products Inc. or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

- · Department issuing SDS: Environment protection department.
- · Creation Date: 01/17/2018
- · Date of preparation / last revision 01/17/2018 / 3
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

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 & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1