FiberTack MT-1, MT-3
Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : FiberTack MT-1, MT-1 BLU, MT-3, MT-3 BLU

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Adhesive

1.3. Details of the supplier of the safety data sheet

Engineered Bonding Solutions, LLC
801 Marina Road
Titusville, FL 32796
T 321-747-0160

1.4. Emergency telephone number

Emergency number : CHEMTREC-# CCN 664275
Toll Free 1-800-424-9300
International 1-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Flam. Liq. 2 H225
Eye Irrit. 2A H319
STOT SE 3 H336

WHMIS Classification

Class B Division 2 - Flammable Liquid
Class D Division 2 Subdivision B - Toxic material causing other toxic effects

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :

GHS02 GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness

Precautionary statements (GHS-US) : P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical/ventilating/lighting equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P264 - Wash thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a POISON CENTER/doctor/physician if you feel unwell
P337+P313 - If eye irritation persists: Get medical advice/attention
P370+P378 - In case of fire: Use Foam, Alcohol Foam, CO2, Dry Chemical, Water Fog for extinction
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up

P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Acetone	(CAS No) 67-64-1	40 - 50	Flam. Liq. 2, H225
Proprietary Polymer	(CAS No) Trade Secret	20 - 35	Not classified
Cyclohexanone	(CAS No) 108-94-1	10 - 20	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311

Acetone (67-64-1)	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Cyclohexanone (108-94-1)	
WHMIS Classification	Class B Division 3 - Combustible Liquid Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Move person to fresh air.If breathing is difficult, administer oxygen. If breathing has stopped give artificial respiration and get medical attention.

First-aid measures after skin contact : Wash thoroughly with soap and water. Remove contaminated clothing.

First-aid measures after eye contact : Flush with large quantities of water for 15 minutes.

First-aid measures after ingestion : Do not induce vomiting, can cause chemical pneumonitis and pulmonary edema. Contact a Physician immediately. If any symptoms persist get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Excessive inhalation of vapors can cause nasal and respiratory irratation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.

Symptoms/injuries after skin contact : Can dry and defat skin causing cracks, irritation and dermatitis.

Symptoms/injuries after eye contact : Severe irritation, redness, tearing and blurred vision.

Symptoms/injuries after ingestion : Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam, Alcohol Foam, CO2, Dry Chemical, Water Fog

Unsuitable extinguishing media : None

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor.

Explosion hazard : Pressure build up and possible auto-ignition or explosion may occur when exposed to extreme heat.

5.3. Advice for firefighters

Firefighting instructions : During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent.

Protection during firefighting : Firefighters should wear full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Stop the flow of material, if this is without risk.

Methods for cleaning up : Eliminate ignition sources, provide good ventilation, dike spill area and cover with inert, absorbent material and remove to disposal container.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use in well ventilated areas. Keep containers closed when not in use.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep away from excessive heat and open flames.

7.3. Specific end use(s)

Adhesive

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Acetone (67-64-1)		
ACGIH	ACGIH TWA (ppm)	500 ppm
ACGIH	ACGIH STEL (ppm)	750 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	2400 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
IDLH	US IDLH (ppm)	2500 ppm (10% LEL)
NIOSH	NIOSH REL (TWA) (mg/m³)	590 mg/m³
NIOSH	NIOSH REL (TWA) (ppm)	250 ppm
Alberta	OEL STEL (mg/m³)	1800 mg/m³
Alberta	OEL STEL (ppm)	750 ppm
Alberta	OEL TWA (mg/m³)	1200 mg/m³
Alberta	OEL TWA (ppm)	500 ppm
British Columbia	OEL STEL (ppm)	500 ppm
British Columbia	OEL TWA (ppm)	250 ppm
Manitoba	OEL STEL (ppm)	750 ppm
Manitoba	OEL TWA (ppm)	500 ppm
New Brunswick	OEL STEL (mg/m³)	1782 mg/m³
New Brunswick	OEL STEL (ppm)	750 ppm
New Brunswick	OEL TWA (mg/m³)	1188 mg/m³
New Brunswick	OEL TWA (ppm)	500 ppm
New Foundland & Labrador	OEL STEL (ppm)	750 ppm
New Foundland & Labrador	OEL TWA (ppm)	500 ppm
Nova Scotia	OEL STEL (ppm)	750 ppm
Nova Scotia	OEL TWA (ppm)	500 ppm
Nunavut	OEL STEL (mg/m³)	2970 mg/m³
Nunavut	OEL STEL (ppm)	1250 ppm
Nunavut	OEL TWA (mg/m³)	2370 mg/m³

Acetone (67-64-1)		
Nunavut	OEL TWA (ppm)	1000 ppm
Northwest Territories	OEL STEL (mg/m³)	2970 mg/m³
Northwest Territories	OEL STEL (ppm)	1250 ppm
Northwest Territories	OEL TWA (mg/m³)	2370 mg/m³
Northwest Territories	OEL TWA (ppm)	1000 ppm
Ontario	OEL STEL (ppm)	750 ppm
Ontario	OEL TWA (ppm)	500 ppm
Prince Edward Island	OEL STEL (ppm)	750 ppm
Prince Edward Island	OEL TWA (ppm)	500 ppm
Québec	VECD (mg/m³)	2380 mg/m³
Québec	VECD (ppm)	1000 ppm
Québec	VEMP (mg/m³)	1190 mg/m³
Québec	VEMP (ppm)	500 ppm
Saskatchewan	OEL STEL (ppm)	750 ppm
Saskatchewan	OEL TWA (ppm)	500 ppm
Yukon	OEL STEL (mg/m³)	3000 mg/m³
Yukon	OEL STEL (ppm)	1250 ppm
Yukon	OEL TWA (mg/m³)	2400 mg/m³
Yukon	OEL TWA (ppm)	1000 ppm

Cyclohexanone (108-94-1)		
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	ACGIH STEL (ppm)	50 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	200 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	50 ppm
IDLH	US IDLH (ppm)	700 ppm
NIOSH	NIOSH REL (TWA) (mg/m³)	100 mg/m³
NIOSH	NIOSH REL (TWA) (ppm)	25 ppm
Alberta	OEL STEL (mg/m³)	200 mg/m³
Alberta	OEL STEL (ppm)	50 ppm
Alberta	OEL TWA (mg/m³)	80 mg/m³
Alberta	OEL TWA (ppm)	20 ppm
British Columbia	OEL STEL (ppm)	50 ppm
British Columbia	OEL TWA (ppm)	20 ppm
Manitoba	OEL STEL (ppm)	50 ppm
Manitoba	OEL TWA (ppm)	20 ppm
New Brunswick	OEL TWA (mg/m³)	100 mg/m³
New Brunswick	OEL TWA (ppm)	25 ppm
New Foundland & Labrador	OEL STEL (ppm)	50 ppm
New Foundland & Labrador	OEL TWA (ppm)	20 ppm
Nova Scotia	OEL STEL (ppm)	50 ppm
Nova Scotia	OEL TWA (ppm)	20 ppm
Nunavut	OEL STEL (mg/m³)	400 mg/m³
Nunavut	OEL STEL (ppm)	100 ppm
Nunavut	OEL TWA (mg/m³)	100 mg/m³
Nunavut	OEL TWA (ppm)	25 ppm
Northwest Territories	OEL STEL (mg/m³)	400 mg/m³
Northwest Territories	OEL STEL (ppm)	100 ppm
Northwest Territories	OEL TWA (mg/m³)	100 mg/m³
Northwest Territories	OEL TWA (ppm)	25 ppm

Cyclohexanone (108-94-1)		
Ontario	OEL STEL (ppm)	50 ppm
Ontario	OEL TWA (ppm)	20 ppm
Prince Edward Island	OEL STEL (ppm)	50 ppm
Prince Edward Island	OEL TWA (ppm)	20 ppm
Québec	VEMP (mg/m³)	100 mg/m³
Québec	VEMP (ppm)	25 ppm
Saskatchewan	OEL STEL (ppm)	50 ppm
Saskatchewan	OEL TWA (ppm)	20 ppm
Yukon	OEL STEL (mg/m³)	200 mg/m³
Yukon	OEL STEL (ppm)	50 ppm
Yukon	OEL TWA (mg/m³)	200 mg/m³
Yukon	OEL TWA (ppm)	50 ppm

8.2. Exposure controls

Appropriate engineering controls : Local exhaust and general ventilation must be adequate to meet exposure standards.

Hand protection : Wear resistant gloves such as nitrile rubber.

Eye protection : Use chemical safety glasses, goggles or faceshields for eye protection.

Skin and body protection : Wear suitable working clothes.

Respiratory protection : If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : Colorelss to pale yellow

Odor : Solvent

Odor threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : 131°F (55°C)

Flash point : -2°F (-19°C) TCC

Self ignition temperature : 788°F (420°C)

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapor pressure : 175 mm Hg

Relative vapor density at 20 °C : No data available

Relative density : 7.54 lb/gal (0.90g/cc)

Solubility : 22% in water at 20°C

Log Pow : No data available

Log Kow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : 1.8 - 10.0 vol %

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Will not occur.

10.4. Conditions to avoid

Excessive heat, ignition sources, poor ventilation, corrosive atmospheres, excessive aging.

10.5. Incompatible materials

Strong oxidizers, strong acids, and strong bases, alkaline materials, amines.

10.6. Hazardous decomposition products

Carbon dioxide, carbon monoxide, various hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Acetone (67-64-1)	
LC50 inhalation rat (mg/l)	50100 mg/m³ (Exposure time: 8 h)

Cyclohexanone (108-94-1)	
LD50 oral rat	800 mg/kg
LD50 dermal rabbit	948 mg/kg
LC50 inhalation rat (ppm)	8000 ppm/4h

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Cyclohexanone (108-94-1)	
IARC group	3

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Acetone (67-64-1)	
LC50 fish 1	4.74 - 6.33 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	10294 - 17704 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	6210 - 8120 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	12600 - 12700 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Cyclohexanone (108-94-1)	
LC50 fish 1	481 - 578 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	8.9 mg/l (Exposure time: 96 h - Species: Pimephales promelas)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Acetone (67-64-1)	
BCF fish 1	0.69
Log Pow	-0.24

Cyclohexanone (108-94-1)	
BCF fish 1	(will not bioconcentrate)
Log Pow	0.86 (at 25 °C)

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

In accordance with TDG

Transport document description	:	UN1133 Adhesives containing a flammable liquid, 3, II
UN-No.(DOT)	:	1133
DOT NA no.	:	UN1133
DOT Proper Shipping Name	:	Adhesives containing a flammable liquid
Department of Transportation (DOT) Hazard Classes	:	3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	:	3 - Flammable liquid

Packing group (DOT)	:	II - Medium Danger
DOT Special Provisions (49 CFR 172.102)	:	149 - When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in 173.150(b)(2) of this subchapter for inner packaging may be increased to 5 L (1.3 gallons). B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F).
DOT Packaging Exceptions (49 CFR 173.xxx)	:	150
DOT Packaging Non Bulk (49 CFR 173.xxx)	:	173
DOT Packaging Bulk (49 CFR 173.xxx)	:	242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	60 L
DOT Vessel Stowage Location	:	B - (i) The material may be stowed ‘‘on deck’’ or ‘‘under deck’’ on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) ‘‘On deck only’’ on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Other information	:	No supplementary information available.

SECTION 15: Regulatory information

CANADA

FiberTack MT-1, MT-1 BLU, MT-3, MT-3 BLU	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Proprietary Polymer
Listed on the Canadian DSL (Domestic Substances List) inventory.

Acetone (67-64-1)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Cyclohexanone (108-94-1)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
WHMIS Classification	Class B Division 3 - Combustible Liquid Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects

15.2. International regulations

Proprietary Polymer
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Acetone (67-64-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Cyclohexanone (108-94-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2.2. National regulations

Acetone (67-64-1)
Listed on the Canadian Ingredient Disclosure List

Cyclohexanone (108-94-1)
Listed on the Canadian Ingredient Disclosure List

SECTION 16: Other information

Full text of H-phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H311	Toxic in contact with skin
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

VERSION 1.3	Revision Date 12/20/19	Print Date 12/20/19

This version replaces all previous versions
Previous Issue Date: 06/16/20/16

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product