# MATERIAL SAFETY DATA SHEET



## 1. Product and Company Identification

**Material name CORE ADHESIVE SB-100** 

Version # 12

Issue date 15-November-2012 **Revision date** 15-November-2012

Chemical description Adhesive CAS# Mixture **Product use** Adhesive **Manufacturer information** CFTCO

2870 Forbs Avenue

Hoffman Estates, IL 60192 United States

safety.data@amcol.com http://www.cetco.com/

General Information (800) 527-9948 CHEMTREC® (800) 424-9300

#### 2. Hazards Identification

**Emergency overview DANGER** 

Highly flammable.

Flammable liquid - may release vapors that form flammable mixtures at or above the flash point. Will be easily ignited by heat, spark or flames. Vapors may form explosive mixtures with air. Heat

may cause the containers to explode. Very toxic. Irritating to eyes and skin.

Potential health effects

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact. Eye contact

**Eyes** Contact with eyes may cause irritation. Do not get this material in contact with eyes. May cause

irreversible eye damage. This product is severely irritating to the eyes.

Prolonged or repeated contact can result in defatting and drying of the skin which may result in Skin

skin irritation and dermatitis (rash). May cause skin irritation and/or dermatitis. May cause skin

irritation. Do not get this material in contact with skin.

May cause irritation of respiratory tract. Prolonged inhalation may be harmful. Do not breathe Inhalation

dust/fume/gas/mist/vapors/spray. Excessive inhalation of vapors from this product may cause

weakness, dizziness, confusion and numbness of limbs.

Ingestion Components of the product may be absorbed into the body by ingestion, Irritating, May cause

> nausea, stomach pain and vomiting. Do not ingest. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration into lungs may cause chemical pneumonia and lung

damage.

**Target organs** Central nervous system. Eyes. Kidneys. Liver. Respiratory system. Skin.

**Chronic effects** May cause central nervous system disorder (e.g., narcosis involving a loss of coordination,

weakness, fatique, mental confusion, and blurred vision) and/or damage. Frequent or prolonged

contact may defat and dry the skin, leading to discomfort and dermatitis.

Symptoms are prostration, gasping, pallor, and uncoordinated movements. Symptoms may Signs and symptoms

include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure

may be headache, dizziness, tiredness, nausea and vomiting.

Potential environmental effects Components of this product are hazardous to aquatic life. May cause long-term adverse effects in

the environment.

### 3. Composition / Information on Ingredients

Components	CAS#	Percent
METHYL ETHYL KETONE	78-93-3	5 - 10

Material name: CORE ADHESIVE SB-100 MSDS CANADA 
 Components
 CAS #
 Percent

 TOLUENE
 108-88-3
 1 - 5

 Other components below reportable levels
 60 - 100

Composition comments

Not applicable to consumer products. Occupational Exposure Limits for constituents are listed in Section 8.

#### 4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Immediately flush eyes with

plenty of water for at least 20 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Continue rinsing. Call a physician or Poison Control Center

immediately.

Skin contact Take off immediately all contaminated clothing. Immediately flush skin with plenty of water. Call a

physician or Poison Control Center immediately. Get medical attention if irritation develops or

persists. Wash clothing separately before reuse.

**Inhalation** Move to fresh air. If the affected person is not breathing, apply artificial respiration. Oxygen or

artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or Poison Control Center immediately.

Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. If material is

ingested, immediately contact a physician or poison control center. Never give anything by mouth to a victim who is unconscious or is having convulsions. Rinse mouth thoroughly. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not induce vomiting without medical advice. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Notes to physician Symptoms may be delayed.

General advice Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Immediate medical attention is required. Show this safety data sheet to the

doctor in attendance.

5. Fire Fighting Measures

Flammable properties Flammable by WHMIS criteria. Containers may explode when heated. Heat may cause the

containers to explode. Vapor or gas may spread to distant ignition sources and flash back. Vapors

may travel considerable distance to a source of ignition and flash back.

Extinguishing media

Suitable extinguishing

media

Water Fog. Carbon dioxide (CO2). Dry chemical, CO2, water spray or regular foam. Alcohol

resistant foam. Powder.

Unsuitable extinguishing

media

Water. Do not use water jet as an extinguisher, as this will spread the fire.

**Protection of firefighters** 

Specific hazards arising from the chemical

Fire may produce irritating, corrosive and/or toxic gases.

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or applicable of the protective great).

equivalent) and full protective gear.

Fire fighting

equipment/instructions

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. ALWAYS stay away from tanks engulfed in flame. Move containers from fire area if you can do it without risk. Withdraw

immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. In the event of fire, cool tanks with water spray. Do not scatter spilled material with high pressure water streams. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Some of these materials, if spilled, may

evaporate leaving a flammable residue.

**Specific methods** In the event of fire and/or explosion do not breathe fumes.

**Explosion data** 

Sensitivity to static Not available.

discharge

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Sensitivity to mechanical

impact

Not available.

Hazardous combustion

products

Fire may produce irritating, corrosive and/or toxic gases.

#### 6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Consider initial downwind evacuation for at least 500 meters (1/3 mile). Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep upwind. Ventilate closed spaces before entering them.

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Runoff from fire control or dilution water may cause pollution. Do not contaminate water.

**Methods for containment** 

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Dike the spilled material, where this is possible. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Methods for cleaning up

Extinguish all flames in the vicinity. Should not be released into the environment. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use clean non-sparking tools to collect absorbed material. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. Clean up in accordance with all applicable regulations. For waste disposal, see section 13 of the MSDS. Avoid runoff into storm sewers and ditches which lead to waterways. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

Other information

Clean up in accordance with all applicable regulations.

# 7. Handling and Storage

Handling

Vapors may form explosive mixtures with air. May be ignited by open flame. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not handle or store near an open flame, heat or other sources of ignition. When using do not smoke. All equipment used when handling the product must be grounded. Do not breathe mist or vapor.

Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not get this material on clothing. Do not use in areas without adequate ventilation. Avoid prolonged exposure. When using do not eat or drink. Wash thoroughly after handling. Avoid release to the environment.

Storage

Keep locked up. Keep at temperatures between 15 and 35°C. Keep away from heat, sparks, and flame. Do not handle or store near an open flame, heat or other sources of ignition. Keep at temperature not exceeding 49 °C. This material can accumulate static charge which may cause spark and become an ignition source. Refrigeration recommended. Store in a well-ventilated place. Keep tightly closed in a dry, cool and well-ventilated place. Keep this material away from food, drink and animal feed. Store away from strong oxidizers. Store in a closed container away from incompatible materials. Keep in an area equipped with sprinklers. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

### 8. Exposure Controls / Personal Protection

# Occupational exposure limits

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	
Methyl ethyl ketone (78-93-3)	STEL	300 ppm	
	TWA	200 ppm	
Toluene (108-88-3)	TWA	20 ppm	

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Components	Туре	Value
Methyl ethyl ketone (78-93-3)	BEI	2 mg/l
Toluene (108-88-3)	BEI	0.3 mg/g
,		0.03 mg/l
		0.02 mg/l
	upational Health & Safety Code, Scl	nedule 1, Table 2)
Components	Туре	Value
Methyl ethyl ketone (78-93-3)	STEL	885 mg/m3
		300 ppm
	TWA	590 mg/m3
<b>-</b>		200 ppm
Toluene (108-88-3)	TWA	188 mg/m3 50 ppm
Canada. British Columbia O	ELs. (Occupational Exposure Limit	s for Chemical Substances, Occupational Health and
Safety Regulation 296/97, as		,
Components	Type	Value
Methyl ethyl ketone (78-93-3)	STEL	100 ppm
	TWA	50 ppm
Toluene (108-88-3)	TWA	20 ppm
Canada, Ontario OELs, (Con	trol of Exposure to Biological or Cl	nemical Agents)
Components	Туре	Value
Methyl ethyl ketone (78-93-3)	STEL	300 ppm
	TWA	200 ppm
Toluene (108-88-3)	TWA	20 ppm
Canada. Quebec OELs. (Min	istry of Labor - Regulation Respect	ing the Quality of the Work Environment)
Components	Туре	Value
Methyl ethyl ketone (78-93-3)	STEL	300 mg/m3
		100 ppm
	TWA	150 mg/m3
		50 ppm
Toluene (108-88-3)	TWA	188 mg/m3
		50 ppm
US. OSHA Table Z-1 Limits f	or Air Contaminants (29 CFR 1910.	1000)
Components	Туре	Value
Methyl ethyl ketone (78-93-3)	PEL	590 mg/m3
		200 ppm
US. OSHA Table Z-2 (29 CFF		
Components	Туре	Value
Toluene (108-88-3)	Ceiling	300 ppm
	TWA	200 ppm
ineering controls	Ensure adequate ventilation, especi using common bonding and ground	ally in confined areas. Prevent electrostatic charge build-uing techniques.
sonal protective equipment		
Eye / face protection	If splashes are likely to occur, wear: glasses.	Chemical goggles are recommended. Face-shield. Safety
Skin protection	Wear appropriate chemical resistant gloves. Chemical resistant gloves. Wear chemical protect equipment that is specifically recommended by the manufacturer. It may provide little or no thermal protection.	

#### Respiratory protection

Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. If ventilation is not sufficient to effectively prevent buildup of aerosols or mists, appropriate NIOSH/MSHA respiratory protection must be provided.

# 9. Physical & Chemical Properties

AppearanceLiquid.Physical stateLiquid.FormLiquid.ColorAmber.OdorSolvent.Odor thresholdNot available.pHNot available.

Vapor pressure < 100 kPa estimated

Vapor density Not available.

**Boiling point** 132.8 - 231.08 °F (56 - 110.6 °C)

Melting point/Freezing point -137.1 °F (-93.967272793 °C) estimated

Solubility (water) Not available.

Specific gravity 0.849

**Relative density**Not available. **Flash point**1.40 °F (-17.00 °C)

Flammability limits in air,

upper, % by volume

Flammability limits in air,

**Auto-ignition temperature** 

lower, % by volume

1 %

12.8 %

759 - 997 °F (403.89 - 536.11 °C)

**Evaporation rate** > 1 (n-Butyl Acetate = 1)

Percent volatile 74.8 % w/w

Other data

Flammability class Flammable IB estimated

Flash point class Flammable IB

# 10. Chemical Stability & Reactivity Information

**Chemical stability** Risk of explosion. Risk of ignition.

**Conditions to avoid** Heat, flames and sparks. Avoid temperatures exceeding the flash point.

Incompatible materials Strong oxidizing agents. Ammonia. Amines. Isocyanates. Acids. Caustics. Do not mix with other

chemicals. Strong acids, alkalies and oxidizing agents.

Hazardous decomposition

products

At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

Possibility of hazardous Will not occur. Hazardous polymerization does not occur.

reactions

### 11. Toxicological Information

# Toxicological data

Product	Species	Test Results
CORE ADHESIVE SB-100 (Mixtu	re)	
Acute		
Dermal		
LD50	Rabbit	27720 mg/kg
Inhalation		
LC50	Rat	91.3 mg/l/4h

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Components **Species Test Results** 

METHYL	FTHYL	KETONE	(78-93-3)	)
			( 1 0 00 0	,

Acute
Dermal
LDEO

Rabbit 6480 mg/kg LD50

Inhalation

LC50 Mouse 11000 mg/l, 45 Minutes Rat

11700 mg/l, 4 Hours

Oral

LD50 Mouse 670 mg/kg Rat 2737 mg/kg

2300 - 3500 mg/kg

Other

LD50 Mouse 1660 g/kg, 24 Hours Rat 12290 mg/kg, 24 Hours

**TOLUENE (108-88-3)** 

Acute

Dermal

LD50 Rabbit 8390 mg/kg

14.1 ml/kg

Rat 12124 mg/kg

Inhalation

LC50 Mouse 400 mg/l, 24 Hours Rat 8000 mg/l, 4 Hours

12.5 mg/l/4h

Oral

LD50 Rat 636 mg/kg

2.6 g/kg

Other

LD50 Mouse 59 mg/kg 1.15 g/kg Rat 1332 mg/kg

1.64 g/kg

**Chronic effects** Prolonged inhalation may be harmful. Prolonged or repeated exposure may cause lung injury. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood.

Prolonged exposure may cause chronic effects.

Subchronic effects Kidney injury may occur.

Carcinogenicity

**ACGIH Carcinogens** 

**TOLUENE (CAS 108-88-3)** A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

**TOLUENE (CAS 108-88-3)** 3 Not classifiable as to carcinogenicity to humans.

Reproductive effects Potential embryo-fetal toxicity and teratogenicity. **Teratogenicity** Avoid exposure to women during early pregnancy.

**Further information** Symptoms may be delayed.

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

### 12. Ecological Information

Ecotoxicological data

Components		Species	Test Results
METHYL ETHYL KETONE	(78-93-3)		
Crustacea	EC50	Daphnia	5091 mg/L, 48 Hours
Fish	LC50	Fish	3220 mg/L, 96 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	4025 - 6440 mg/l, 48 hours
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus)	> 400 mg/l, 96 hours
TOLUENE (108-88-3)			
Crustacea	EC50	Daphnia	11.3 mg/L, 48 Hours
Fish	LC50	Fish	25 mg/L, 96 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	5.5 mg/l, 96 hours

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

**Ecotoxicity** Components of this product are hazardous to aquatic life. In high concentrations, this product may

be dangerous to aquatic life and fouling to shorelines. No data available for this product.

Harmful to aquatic organisms. An environmental hazard cannot be excluded in the event of **Environmental effects** 

unprofessional handling or disposal.

Persistence and degradability

Mobility in environmental

media

Not available. This product is miscible in water.

### 13. Disposal Considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the

> material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable

regulations.

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

#### 14. Transport Information

**TDG** 

UN1133 **UN** number

Proper shipping name Adhesives, containing a flammable liquid

**Hazard class** 3 Ш Packing group

Special provisions 149, B52, IB2, T4, TP1, TP8

Labels required 150 Packaging exceptions Packaging non bulk 173 Packaging bulk 242

**IATA** 

UN1133 **UN** number

**UN** proper shipping name Adhesives, containing a flammable liquid

Transport hazard class(es) 3 Ш Packing group Labels required 3

**IMDG** 

**UN** number **UN1133** 

**UN** proper shipping name Adhesives, containing a flammable liquid 3

Ш

Transport hazard class(es) Packing group

Material name: CORE ADHESIVE SB-100

## Labels required 3

### IATA; IMDG; TDG



General Substance may be transported hot. IMDG Regulated Marine Pollutant.

# 15. Regulatory Information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

WHMIS status Controlled

WHMIS classification B2 - Flammable Liquids

D1A - Immediate/Serious-VERY TOXIC D2A - Other Toxic Effects-VERY TOXIC D2B - Other Toxic Effects-TOXIC

### WHMIS labeling





#### **Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

### 16. Other Information

Further information This safety datasheet only contains information relating to safety and does not replace any

product information or product specification. HMIS® is a registered trade and service mark of the

NPCA.

**HMIS**® ratings Health: 2\*

Flammability: 3 Physical hazard: 1

NFPA ratings Health: 2

Flammability: 3 Instability: 1

Material name: CORE ADHESIVE SB-100 MSDS CANADA

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use.

Third party materials: Insofar as materials not manufactured or supplied by this manufacturer are used in conjunction with, or instead of this product, it is the responsibility of the customer to obtain, from the manufacturer or supplier, all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of this product in conjunction with materials from another supplier. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information in the sheet was written based on the best knowledge and experience currently available.

This data sheet contains changes from the previous version in section(s):

This document has undergone significant changes and should be reviewed in its entirety.

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