Ferr-L-Tite Cool Flex

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of issue: 07 June 2016 Revision date: 18 January 2019 Supersedes: 07 June 2016 Version: 4.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Trade name : Ferr-L-Tite Cool Flex

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

Recommended use : Gluing inserts in carbon, cedar, aluminum and fiberglass arrow shafts

1.3. Details of the supplier of the safety data sheet

Manufacturer:

Bohning Company Ltd.
7361 North Seven Mile Road
Lake City, MI 49651
Tel: 231-229-4247

1.4. Emergency telephone number

Emergency number : HAZMAT +1-800-373-7542 (24 hours)
HAZMAT (International Shipments) +1-484-951-2432 (24 hours)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. Label elements

GHS-US labelling

No labelling applicable

2.3. Other hazards

other hazards which do not result in classification : Hot molten material can cause irreversible eye injury and burns. Contact with SOLID material may cause irritation with temporary redness with stinging and tears. Inhalation of hot mist may cause respiratory irritation. Molten material will produce burns to the gastrointestinal tract.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Caution! Hot molten mass. After contact with molten product, cool skin area rapidly with cold water.

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. After contact with molten product, cool skin area rapidly with cold water. Burns caused by molten material must be treated clinically. If burned by hot material, cool skin by quenching with large amounts of cool water. Do not use force or solvents to remove product incrustations from affected skin areas.

First-aid measures after eye contact : In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Obtain emergency medical attention. Do not induce vomiting unless directed to do so by medical personnel.

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

Symptoms/injuries	:	Not expected to present a significant hazard under anticipated conditions of normal use. Risk of thermal burns on contact with molten product.
Symptoms/injuries after skin contact	:	Risk of thermal burns on contact with molten product.
Symptoms/injuries after eye contact	:	Vapors from molten wax may cause irritation and tearing. Risk of thermal burns on contact with molten product.
Symptoms/injuries after ingestion	:	May cause severe gastric distress. Ingestion may cause nausea, vomiting and diarrhea.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	:	Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	:	Do not use a heavy water stream. Do not use a solid stream of water on molten adhesive to avoid splattering and spreading of fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard	:	Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.
Explosion hazard	:	No direct explosion hazard.
Reactivity	:	No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

Precautionary measures fire	:	Caution! Hot molten mass. Do not use a solid stream of water on molten adhesive to avoid splattering and spreading of fire.
Firefighting instructions	:	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent firefighting water from entering the environment.
Protective equipment for firefighters	:	Do not enter fire area without proper protective equipment, including respiratory protection. Wear positive pressure air supplied respirator if required by safe entry procedures.
Other information	:	Hazardous decomposition products. On heating/burning: release of harmful gases/vapors e.g.: carbon monoxide - carbon dioxide. Acetic acid. Vinyl acetate.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	:	Material spilled on hard surface can present a serious slipping/falling hazard. Ensure adequate ventilation.

6.1.1. For non-emergency personnel

Emergency procedures	:	Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	:	Equip cleanup crew with proper protection.
Emergency procedures	:	Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	:	Allow spilled material to solidify and scrape up with shovels into a suitable container for recycle or disposal as hazardous waste. On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. Keep upwind of the spilled material and isolate exposure. It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations. Dispose of waste according to applicable legislation.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe vapor or spray. Keep out of reach of children.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	:	Ensure adequate ventilation of the storage area. A washing facility/water for eye and skin cleaning purposes should be present. Emergency shower installed.
Storage conditions	:	Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Protect against direct sunlight. Keep out of reach of children.
Incompatible materials	:	Strong acids, bases. Oxidizing agents. Reducing agents.
Heat and ignition sources	:	Remove all sources of ignition.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls	:	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.
Personal protective equipment	:	Avoid all unnecessary exposure. The following pictograms represent the minimum requirements for personal protective equipment. Gloves. Protective clothing. Safety glasses.

Hand protection	:	Wear protective gloves.
Eye protection	:	Chemical goggles or safety glasses. Face-shield.
Skin and body protection	:	Wear work clothes with long sleeves. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).
Respiratory protection	:	Wear appropriate mask.
Thermal hazard protection	:	Wear heat resistant boots and protective clothing when handling material at elevated temperatures.
Environmental exposure controls	:	Avoid release to the environment.
Other information	:	Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Color	:	Opaque Blue
Odor	:	Characteristic Negligible.
Odor threshold	:	No data available
pH	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	No data available
Relative vapor density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	No data available
Log Pow	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive limits	:	No data available
Explosive properties	:	No data available

Oxidizing properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases. And with (strong) oxidizers. Reducing agent.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Ingestion; Inhalation; Skin and eyes contact

Acute toxicity : Not classified

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/injuries after skin contact : Risk of thermal burns on contact with molten product.

Symptoms/injuries after eye contact : Vapors from molten wax may cause irritation and tearing. Risk of thermal burns on contact with molten product.

Symptoms/injuries after ingestion : May cause severe gastric distress. Ingestion may cause nausea, vomiting and diarrhea.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

Ferr-L-Tite Cool Flex	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Ferr-L-Tite Cool Flex	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

Additional information : This information of RCRA waste classification and disposal methodology provided below applies only to the BOHNING Products, as supplied. If the material has been altered on contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Hazardous waste classification under federal regulations (40 CFR part 261 et seq.) is dependent upon whether a material is a RCRA listed hazardous waste or has any of the four RCRA hazardous waste characteristics Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA listed hazardous waste, information contained in Section 15 of this MSDS is not intended to indicated if the product is a listed hazardous waste. RCRA Hazardous Waste have four characteristics defined in 40 CFR Section 261.21-61.24: Ignitability, Corrosivity, Reactivity, and Toxicity. To determine Ignitability, see Section 5 of this MSDS (Flash Point). For Corrosivity, see Section 9 and 14 (pH and DOT Corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 3 and 12 (Composition, Ecological Hazards). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed. Bohning encourages the recycle, recovery and reuse of materials, where permitted, as an alternate to disposal as a waste. Bohning recommends that organic materials classified as RCRA hazardous wastes be disposed of by thermal treatment or incineration at an EPA approved facilities. Bohning has proved the foregoing for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

TDG

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

No additional information available

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

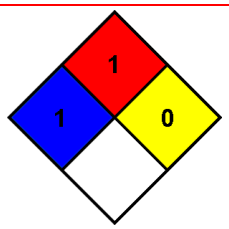
Revision date : 07 June 2016

Other information : None.

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Indication of changes:

3	Composition/information on ingredients	Modified	

SDS US (GHS HazCom 2012) - Red Gray 160531

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