

**SECTION 1: IDENTIFICATION**

**Product Identifier:** Classic Tailfin, Delta-K Tailfin, Snowslugger Tailfin  
**Product Names and Synonyms:** Tailfin Assembly  
**Intended Use:** Avalanche control  
**Use advised against:** Do not use indoors or inside a vehicle

**Name, Address, and Telephone of the Responsible Party:**

CIL Avalanche Ltd  
 1501-10 Ave Unit C  
 Fernie, BC, Canada  
 V0B 1M0  
 Email: [avalancheorders@cilavalanche.com](mailto:avalancheorders@cilavalanche.com)  
[www.cilavalanche.com](http://www.cilavalanche.com)

**In Case of Emergency Call CHEMTREC – TOLL FREE 24/7**  
**800-424-9300 DOMESTIC**  
**1-703-527-3887 INTERNATIONAL AND MARINE**

**SECTION 2: HAZARDS IDENTIFICATION****Classification of the Substance or Mixture:**

Hazard Class	Hazard Category
Explosives	1.4
STOT - Repeat Exposure	1
Carcinogenicity	1A
Reproductive Toxicity	1A

**Label Elements****Danger****Hazard Statements**

H204 Fire or projection hazard  
 H350 May cause cancer  
 H360 May damage fertility or the unborn child  
 H372 Causes damage to nervous system, kidney, and hematopoietic through prolonged or repeated exposure  
 H411 Toxic to aquatic life with long lasting effects



### Precautionary Statements

P102	Keep out of reach of children
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P250	Do not subject to shock/friction
P260	Do not breathe dust/fume/gas/mist/vapor/spray
P264	Wash hands thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P271	Use only outdoors or in a well-ventilated area
P273	Avoid release to the environment
P280	Wear protective eye protection

### Other Hazards:

None

**Unknown Acute Toxicity:** Not available

## **SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Component	CAS #	EINCS #	%AGE
Iron	7439-89-6	231-096-4	50-55%
Copper	7440-50-8	231-159-6	20-38%
Zinc	7440-66-3	231-175-3	1-14%
Lead styphnate	15245-44-0	239-290-0	2-3%
Barium nitrate	10022-31-8	233-020-5	1.5-2.5%
Antimony sulfide	1345-04-6	215-713-4	0.8-1.1%

Note : Due to Confidential Business Information i.e "Trade Secrets", the exact percentage of each ingredient has not been disclosed. CBI information will be shared with appropriate authorities if circumstances warrant.

## **SECTION 4: FIRST AID MEASURES**

### General:

#### Inhalation:

If contents are inhaled, remove to fresh air. Watch for signs of allergic reaction. If other symptoms develop, get medical aid immediately.

#### Skin Contact:

If contents are contacted, wash area with soap and water for 15 minutes. Remove contaminated clothing and wash before reuse. Get medical aid if irritation occurs.

#### Eye Contact:

If contents get into eye, flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses if easily possible. Get medical aid immediately.

#### Ingestion:

Get medical aid immediately.

### Most important symptoms and effects, both acute and delayed

Symptoms and effect : See section 2 labeling and section 11

### Indication of any immediate medical attention and special treatment needed

No data available



## **SECTION 5: FIRE FIGHTING MEASURES**

### **Extinguishing Media**

**Suitable Extinguishing Media:** Water deluge  
**Unsuitable Extinguishing Media:** N/A

### **Special Hazards Arising from the Substance or Mixture**

**Fire Hazard:** N/A  
**Explosion hazard :** Possible projection hazard  
**Reactivity:** N/A

### **Advice for Firefighters**

**Firefighting Instructions:** Prevent further propagation of fire by spraying unburnt nearby product with water. Combat fire from a sheltered position.  
**Protection during firefighting:** Wear full protective clothing and NIOSH-approved self-container apparatus with full face piece operated in the pressure demand or other positive pressure mode. Do not fight fire when fire reaches cargo. Cargo may explode

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

**Protective Equipment:** Wear flame retardant clothing with long sleeves, dust mask, rubber or nitrile gloves, safety goggles, safety shoes.  
**Emergency Procedures:** Do not breathe contents and avoid contact with skin and eyes. Avoid friction on the released product. Keep away from ignition sources.

### **Environmental precautions**

Prevent dispersion of contents on soil and in water. Prevent contents from spreading or entering into drains, ditches, groundwater or rivers by using appropriate barriers.

### **Methods and material for containment and cleaning up**

**For containment:** Do not absorb in sawdust or other combustible absorbents. Pick up spill for recovery or disposal and place in an approved container.  
**Methods for cleaning up:** Use caution when cleaning up spilled product contents. Remove heat, flames, sparks, and other sources of ignition. Use non-sparking tools and equipment. Prevent buildup of electrostatic charges by grounding. Clean spills in a manner that does not disperse dust into the air. Wash away remainder with plenty of water. Collect wash water for approved disposal. Be very careful - magnesium powder may spontaneously ignite in presence of moisture. Magnesium powder reacts with water, producing flammable hydrogen gas.



## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

**Precautions for safe handling :** Use appropriate personal protective equipment. Workers should wash hands thoroughly after handling. Eating, drinking and smoking should be prohibited in areas where this material is handled and stored.

**Hygiene Measures:** Wash thoroughly after handling.

### **Conditions for Safe Storage, Including Any Incompatibilities**

**Storage conditions :** Store away from moisture, direct sunlight, heat and incompatible materials. Store away from food and beverages

**Incompatible products :** Reducing agents, Organic materials, Finely Powdered metals, Acids, Water, Halogens

**Incompatible materials :** Reducing agents, Organic materials, Finely Powdered metals, Acids, Water, Halogens

**Storage temperature :** Ambient temperature

**Heat and ignition sources :** Store away from flammable materials, sources of heat, flame and sparks.

**Prohibitions on mixed storage :** Reducing agents, Organic materials, Finely Powdered metals, Acids, Water, Halogens

**Storage area :** Dry at ambient temperature

**Special rules on packaging :** Store in original container

## **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Control parameters**

<b>Exposure Limits</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>
Iron	Not Established	Not Established
Copper	0.1 mg/m <sup>3</sup> (fume) 1 mg/m <sup>3</sup> (dusts and mists)	0.2 mg/m <sup>3</sup> (fume), 1 mg/m <sup>3</sup> (dusts and mists)
Zinc	Not Established	Not Established
Lead styphnate	Not Established	Not Established
Barium Nitrate	0.5 mg/m <sup>3</sup>	0.5 gm/m <sup>3</sup>
Antimony sulfide	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>

### **Exposure Controls:**

**Appropriate Engineering Controls:** Local exhaust ventilation is recommended if significant dusting occurs or fumes are generated. Otherwise, use general exhaust ventilation.

**Personal Protective Equipment:**

<b>Hand Protection:</b>	None under normal conditions when using product unless prolonged handling is anticipated. When cleaning up spilled contents, wear gloves.
<b>Eye Protection:</b>	Wear safety glasses or goggles during use and when cleaning up spilled contents.
<b>Skin and body protection:</b>	None under normal conditions when using product unless prolonged handling is anticipated. When cleaning up spilled contents, wear impervious protective clothing, including gloves, boots, and a lab coat, apron or coveralls, as appropriate. Wash hands and face before eating, drinking or using tobacco products.
<b>Respiratory protection :</b>	None under normal conditions when using product. A particulate respirator (NIOSH t N95 or better filters) may be worn during the cleanup of spilled contents.
<b>Other information :</b>	Use product outdoors away from combustible products. For cleanup of spilled contents, emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of hazardous materials. Maintain good housekeeping and safety practices. Do not let contents accumulate in storage or work areas. Clean spills up promptly.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****Information on Physical and Chemical Properties:**

Physical state :	Solid
Appearance :	Flanged capsule
Molecular mass :	No data available
Colour :	Grey
Odour :	No data available
Odour threshold :	No data available
PH :	Not available
Relative evaporation rate :	Not available
Melting point :	Not available
Freezing point :	Not available
Boiling point :	Not available
Flash point :	Not available
Critical temperature :	No data available
Self ignition temperature :	No data available
Decomposition temperature :	82 degrees celsius
Flammability :	No data available
Vapour pressure :	Not available
Critical pressure :	No data available
Relative density :	No data available
Density :	Not applicable
Solubility :	Not available
Log Pow :	Not available
Log Kow :	Not available
Viscosity :	No data available
Explosive properties :	Not available
Oxidising properties :	Not available
Explosive limits :	Not available
Auto ignition temperature :	No data available



## **SECTION 10: STABILITY AND REACTIVITY**

<b>Reactivity:</b>	N/A
<b>Chemical Stability:</b>	Stable
<b>Possibility of Hazardous Reactions:</b>	Hazardous polymerization will not occur
<b>Conditions to Avoid:</b>	Will detonate with mechanical impact or shock; avoid physical damage (puncture) of containers. Avoid contact with incompatible materials
<b>Incompatible Materials:</b>	Acids, Class A & B explosives, strong oxidizers, and caustics
<b>Hazardous Combustion Products:</b>	Strontium oxides, Carbon monoxide and dioxide, Nitrous oxides, Magnesium hydroxides and oxides

## **SECTION 11: TOXICOLOGY INFORMATION**

### Information on toxicological effects:

<b>Ingredient</b>	<b>Oral LD50</b>	<b>Skin LD50</b>	<b>LC50</b>
Iron	Rat : 30 g/kg	No Data	Not Available
Copper	Mouse : 3.5 mg/kg, ip	Mouse : 375 mg/kg, sc	Not Available
Zinc	Not Available	Not Available	Not Available
Lead styphnate	Not Available	Not Available	Not Available
Barium nitrate	Rat : 355 g/kg	Not Available	Not Available
Antimony sulfide	Mouse : 209 mg/kg, ip	>139 mg/kg, sc	Not Available

**Carcinogenicity :** IARC and US EPA list lead and lead compounds as probable human carcinogens (Group 2A) based on sufficient evidence from animal studies and limited evidence from human studies (epidemiology). NTP classifies lead and lead compounds as reasonably anticipated to be human carcinogens.

## **SECTION 12: ECOLOGY INFORMATION**

### **Toxicity**

#### **Aquatic Toxicity :**

Copper : Copper concentrations from 0.1 to 1.0 mg/l have been found to be not toxic for most fish. However, concentrations of 0.015 to 3.0 mg/l have been reported as toxic, particularly in soft water to many kinds of fish, crustacea, mollusks, insects, and plankton.  
 Lead : LC 50 (48 hrs.) to bluegill is reported to be 2-5 mg/l. Lead is toxic to waterfowl.  
 Zinc : The following concentrations of zinc have been reported as lethal to fish : 0.13 mg/l for 12 - 24 hours to Rainbow trout fingerlings; 1.9 - 3.6 mg/l, 69hr TLM (soft water, 30 degrees celsius) to Bluegill Sunfish; 4mg/l, 3 days (hard water) to Rainbow trout; 1 mg/l, 24 hours (soft water) to Sticklebacks.

#### **Persistence and degradability**

Not biodegradable. Released lead may accumulate

#### **Bioaccumulative potential**

No information found

#### **Mobility in environmental media**

Released lead may migrate through soil.



**Other adverse effects**

No information found

**SECTION 13: DISPOSAL CONSIDERATIONS**

Care must be taken to prevent environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding the treatment, storage and disposal for hazardous and nonhazardous wastes.

**SECTION 14: TRANSPORTATION INFORMATION**

**UN number:** UN0044  
**UN proper shipping name:** Primers, Cap Type  
**UN hazard class:** 1.4S  
**UN DG Placard :**



**Packing group** II - Medium Danger

**SECTION 15: REGULATORY INFORMATION**

**US Federal Regulations:**

US Regulations	TSCA	CERCLA	CWA	CAA	SARA 313	SARA 302	Acute	Chronic	Fire	Reactivity	Pressure
Iron	Yes	No	No	No	No	No	No	No	No	Yes	No
Copper	Yes	Yes	No	No	Yes	No	No	No	No	Yes	No
Zinc	Yes	Yes	No	No	Yes	No	No	No	No	Yes	No
Lead styphnate	Yes	Yes	No	No	Yes	No	No	No	No	Yes	No
Barium nitrate	Yes	No	No	No	Yes	No	No	No	No	Yes	No
Antimony sulfide	Yes	Yes	No	No	Yes	No	No	No	No	Yes	No



**SECTION 16: OTHER INFORMATION, INCLUDING DATE OF LAST REVISION**

Revision information : 01/10/2018

NFPA rating :	
Flammability :	1
Health :	0
Reactivity :	2
HMIS rating :	
Flammability :	1
Health :	0
Physical Hazard :	2