



Div: EVANinc

Explosives
EXPERTS
Explosifs

TAILFIN ASSEMBLY
Safety Data Sheet
Date of Issue : 01/10/2018
Version : 1.0

SECTION 1 : identification of the product and of the company

1.1. Product identifier

Product name : Tailfin Assembly
Synonyms : N/A
Product code : Classic Tailfin, Delta-K Tailfin, Snowslugger Tailfin

1.2. Relevant identified uses of the product and uses advised against

Use of the product : Avalanche control
Use advised against : Do not use indoors or inside a vehicle

1.3. Details of the supplier of the safety data sheet

CIL/Explosives
533 Argenteuil
Lachute, QC
J8H 3Y2
Tel : 450-566-0655
Fax : 450-566-0677
email : reception@cilexplives.com
www.cilexplives.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300

SECTION 2 : Hazards identification

2.1. Classification of the product

Explosive	Category 1.4
STOT - Repeat Exposure	Category 1
Carcinogenicity	Category 1A
Reproductive Toxicity	Category 1A



Hazard pictograms :

Signal word :

Hazard statements :

Danger

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 not contributing to the classification :

None

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

4.1. Description of first aid measures

First-aid measures after inhalation :	If contents are inhaled, remove to fresh air. Watch for signs of allergic reaction. If other symptoms develop, get medical aid immediately.
First-aid measures after 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.
First-aid measures after 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.
First-aid measures after ingestion :	Get medical aid immediately.

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

Symptoms and effect :	See section 2 labeling and section 11
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4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5 : Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media :	Water deluge
Unsuitable extinguishing media :	N/A

5.2. Special hazards arising from the chemical

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

5.3. Advice for firefighters

Firefighting instructions :	Prevent further propagation of fire by spraying unburnt nearby product with water. Combat fire from a sheltered position.
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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

6.1. 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.

6.2. 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.

6.3. 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

7.1. 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.

7.2. 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

8.1. Control parameters

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

Appropriate engineering controls :	Local exhaust ventilation is recommended if significant dusting occurs or fumes are generated. Otherwise, use general exhaust ventilation.
Hand Protection :	None under normal conditions when using product unless prolonged handling is anticipated. When cleaning up spilled contents, wear gloves.
Eye protection :	Wear safety glasses or goggles during use and when cleaning up spilled contents.
Skin and body protection :	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.

Respiratory protection : 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.

Other information : 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

9.1. Information on basic 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

10.1 Reactivity

No information available

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur

10.4 Conditions to avoid

Will detonate with mechanical impact or shock; avoid physical damage (puncture) of containers. Avoid contact with incompatible materials

10.5 Incompatible materials

Acids, Class A & B explosives, strong oxidizers, and caustics

10.6 Hazardous decomposition products

Strontium oxides, Carbon monoxide and dioxide, Nitrous oxides, Magnesium hydroxides and oxides

SECTION 11 : Toxicological information

11.1 Information on toxicological effects

Ingredient	Oral LD50	Skin LD50	LC50
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 : Ecological information

12.1 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.

12.2. Persistence and degradability

Not biodegradable. Released lead may accumulate

12.3. Bioaccumulative potential

No information found

12.4. Mobility in environmental media

Released lead may migrate through soil.

12.5. Other adverse effects

No information found

SECTION 13 : Disposal considerations

13.1.. Disposal methods

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 : Transport information

14.1.. UN number

UN number : UN0044

14.2.. UN proper shipping name

UN proper shipping name : Primers, Cap Type

UN hazard class : 1.4S



UN DG Placard :
Packing group

: II - Medium Danger

SECTION 15 : Regulatory information

15.1. 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

Revision information : 01/10/2018

NFPA rating :

Flammability : 1

Health : 0

Reactivity : 2

HMIS rating :

Flammability : 1

Health : 0

Physical Hazard : 2