

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS



Printing date: September 10, 2014

Revision: September 10, 2014

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

- **1.1 Product identifier**
- **Trade name:** Projectile Base Pre-assembly 40MM Extended Range
- **Article number:** 6782
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Explosive product.
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Safariland, LLC
13386 International Parkway
Jacksonville, FL 32218
Customer Care (800) 347-1200
- **Further information obtainable from:** Customer Care Department
- **1.4 Emergency telephone number:**
ChemTel Inc.
(800)255-3924, +1 (813)248-0585

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.
 exploding bomb
Expl. 1.4 H204 Fire or projection hazard.
-  environment
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
R5-44: Heating may cause an explosion. Risk of explosion if heated under confinement.
- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

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- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



This pictogram only applicable for EU regulations. Not for use in the United States (OSHA GHS).



GHS01 GHS09

- **Signal word** Warning

- **Hazard statements**

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.

H204 Fire or projection hazard.

H411 Toxic to aquatic life with long lasting effects.

- **Precautionary statements**

The following Precautionary Statements are applicable only to the general GHS regulations and not the specific CLP regulation: P374.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P250 Do not subject to grinding/shock/friction.

P373 DO NOT fight fire when fire reaches explosives.

P374 Fight fire with normal precautions from a reasonable distance.

P372 Explosion risk in case of fire.

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

- **Additional information:**

Contains Rosin. May produce an allergic reaction.

Can become highly flammable in use.

- **Hazard description:**

- **WHMIS-symbols:**

F - Dangerously reactive material



- **NFPA ratings (scale 0 - 4)**



Health = 0

Fire = 0

Reactivity = 3

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = *0
FIRE	0	Fire = 0
REACTIVITY	3	Reactivity = 3

Warning: Contains lead salt(s). Long-term health hazard.

· **HMIS Long Term Health Hazard Substances**

122-39-4	diphenylamine
15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Explosive Product Notice**

PREVENTION OF ACCIDENTS IN THE USE OF EXPLOSIVES - The prevention of accidents in the use of explosives is a result of careful planning and observance of the best known practices. The explosives user must remember that he is dealing with a powerful force and that various devices and methods have been developed to assist him in directing this force. He should realize that this force, if misdirected, may either kill or injure both him and his fellow workers.










WARNING - All explosives are dangerous and must be carefully handled and used following approved safety procedures either by or under the direction of competent, experienced persons in accordance with all applicable federal, state, and local laws, regulations, or ordinances. If you have any questions or doubts as to how to use any explosive product, DO NOT USE IT before consulting with your supervisor, or the manufacturer, if you do not have a supervisor. If your supervisor has any questions or doubts, he should consult the manufacturer before use.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 9004-70-0 EC number: 603-037-0	Nitrocellulose, colloided, granular  E R3  Expl. 1.1, H201	25-50%
CAS: 55-63-0 EINECS: 200-240-8 Index number: 603-034-00-X	glycerol trinitrate  T+ R26/27/28;  E R3;  N R51/53 R33  Unst. Expl., H200  Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330  STOT RE 2, H373  Aquatic Chronic 2, H411 Flam. Liq. 2, H225	25-50%

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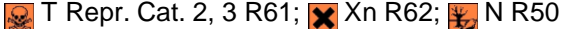









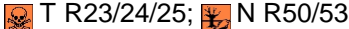

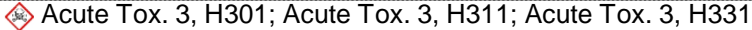

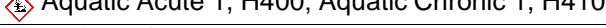



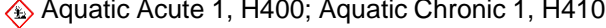






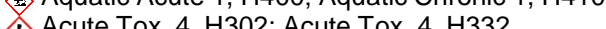
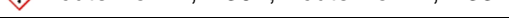
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CAS: 8050-09-7 EINECS: 232-475-7 Index number: 650-015-00-7	Rosin  Xi R43  Skin Sens. 1, H317	1-5%
CAS: 84-74-2 EINECS: 201-557-4 Index number: 607-318-00-4	dibutyl phthalate  T Repr. Cat. 2, 3 R61;  Xn R62;  N R50  Repr. 1B, H360Df  Aquatic Acute 1, H400	1-5%
CAS: 7439-89-6 EINECS: 231-096-4	iron substance with a Community workplace exposure limit	1-5%
CAS: 85-98-3 EINECS: 201-645-2	1,3-diethyldiphenylurea  Xn R22  Acute Tox. 4, H302  Aquatic Chronic 3, H412	1-5%
CAS: 7440-50-8 EINECS: 231-159-6	copper substance with a Community workplace exposure limit	1-5%
CAS: 86-30-6 EINECS: 201-663-0	nitrosodiphenylamine  Xn R22  Acute Tox. 4, H302	0,5-2%
CAS: 122-39-4 EINECS: 204-539-4 Index number: 612-026-00-5	diphenylamine  T R23/24/25;  N R50/53 R33  Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331  STOT RE 2, H373  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0,5-2%
CAS: 7757-79-1 EINECS: 231-818-8	potassium nitrate  O R8  Ox. Sol. 2, H272	0,5-2%
CAS: 18282-10-5 EINECS: 242-159-0	tin dioxide substance with a Community workplace exposure limit	0,5-2%
CAS: 7440-66-6	zinc metal  N R50/53  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	< 1,0%
CAS: 15245-44-0 EINECS: 239-290-0 Index number: 609-019-00-4	lead 2,4,6-trinitro-m-phenylene dioxide  T Repr. Cat. 1, 3 R61;  Xn R62-20/22;  E R3;  N R50/53 R33  Unst. Expl., H200  Repr. 1A, H360Df; STOT RE 2, H373  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Acute Tox. 4, H302; Acute Tox. 4, H332	< 1,0%
· SVHC		
84-74-2	dibutyl phthalate	
15245-44-0	lead 2,4,6-trinitro-m-phenylene dioxide	

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- **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Unlikely route of exposure.
Brush off loose particles from skin.
If skin irritation is experienced, consult a doctor.
- **After eye contact:**
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** Blast injury if mishandled.
- **Hazards** Danger of blast or crush-type injuries.
- **4.3 Indication of any immediate medical attention and special treatment needed**
Product may produce physical injury if mishandled. Treatment of these injuries should be based on the blast and compression effects.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Flood area with water. If no water is available, carbon dioxide, dry chemical or earth may be used. If the fire reaches the cargo, withdraw and let fire burn.
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
Product may explode if burned in confined space. Individual cartridges may explode. Mass explosion of many cartridges at once is unlikely.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information**
Cool endangered receptacles with water spray.
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Eliminate all ignition sources if safe to do so.
Flammability Classification: (defined by 29 CFR 1910.1200) Explosive. Can explode under fire conditions. Individual devices will randomly explode. Will not mass explode if multiple devices are involved. Burning material may produce toxic and irritating vapors. In unusual cases, shrapnel may be thrown from exploding devices under containment. See 2008 Emergency response Guidebook for further information.

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SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTEL AT 1-800-255-3924. Spills of this material should be handled carefully. Do not subject materials to mechanical shock or extreme heat. A spill of this material will normally not require emergency response team capabilities.

Wear protective equipment. Keep unprotected persons away.

Remove persons from danger area.

Ensure adequate ventilation

Protect from heat.

Isolate area and prevent access.

· 6.2 Environmental precautions: No special measures required.

· 6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Dispose contaminated material as waste according to item 13.

Send for recovery or disposal in suitable receptacles.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling Handle with care. Avoid jolting, friction and impact.

· Information about fire - and explosion protection:

Protect from heat.

Emergency cooling must be available in case of nearby fire.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Avoid storage near extreme heat, ignition sources or open flame.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from flammable substances.

· Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

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· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

55-63-0 glycerol trinitrate

PEL (USA)	Ceiling limit: 2 mg/m ³ , 0,2 ppm Skin
REL (USA)	Short-term value: 0,1 mg/m ³ Skin
TLV (USA)	Long-term value: 0,46 mg/m ³ , 0,05 ppm Skin
EL (Canada)	Long-term value: 0,05 ppm Skin
EV (Canada)	Long-term value: 0,5 mg/m ³ , 0,05 ppm Skin

8050-09-7 Rosin

TLV (USA)	DSEN, RSEN, L
EL (Canada)	S

84-74-2 dibutyl phthalate

PEL (USA)	Long-term value: 5 mg/m ³
REL (USA)	Long-term value: 5 mg/m ³
TLV (USA)	Long-term value: 5 mg/m ³
EL (Canada)	Long-term value: 5 mg/m ³ R
EV (Canada)	Long-term value: 5 mg/m ³

7439-89-6 iron

EV (Canada)	Long-term value: 1* 5** mg/m ³ as iron;*salts, water-soluble;**welding fume
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122-39-4 diphenylamine

REL (USA)	Long-term value: 10 mg/m ³
TLV (USA)	Long-term value: 10 mg/m ³
EL (Canada)	Long-term value: 10 mg/m ³
EV (Canada)	Long-term value: 10 mg/m ³

7440-50-8 copper

PEL (USA)	Long-term value: 1* 0,1** mg/m ³ as Cu *dusts and mists **fume
REL (USA)	Long-term value: 1* 0,1** mg/m ³ as Cu *dusts and mists **fume
TLV (USA)	Long-term value: 1* 0,2** mg/m ³ *dusts and mists; **fume; as Cu
EL (Canada)	Long-term value: 1* 0,2** mg/m ³ *dusts and mists; **fume, as Cu

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EV (Canada)	Long-term value: 0,2* 1** mg/m ³ as copper, *fume;**dust and mists
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18282-10-5 tin dioxide

IOELV (EU)	Long-term value: 2 mg/m ³ as Sn
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REL (USA)	Long-term value: 2 mg/m ³ as Sn
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TLV (USA)	Long-term value: 2 mg/m ³ as Sn
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EL (Canada)	Long-term value: 2 mg/m ³ as Sn
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EV (Canada)	Long-term value: 2 mg/m ³ as Sn
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15245-44-0 lead 2,4,6-trinitro-m-phenylene dioxide

EV (Canada)	Long-term value: 0,05 mg/m ³ as Pb, Skin (organic compounds)
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- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information:** The lists valid during the making were used as basis.

• **8.2 Exposure controls**• **Personal protective equipment:**• **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

- **Respiratory protection:** Not required under normal conditions of use.

• **Protection of hands:**

Wear gloves for the protection against mechanical hazards according to NIOSH or EN 388.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

• **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:**

Safety glasses

- **Body protection:** Protective work clothing

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- **Limitation and supervision of exposure into the environment**
No further relevant information available.
- **Risk management measures**
See Section 7 for additional information.
Organizational measures should be in place for all activities involving this product.
No further relevant information available.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - **Form:** Solid metal container containing liquid and solid contents.
 - **Colour:** According to product specification
- **Odour:** Odourless
- **Odour threshold:** Not determined.
- **pH-value:** Not applicable.
- **Change in condition**
 - **Melting point/Melting range:** Not Determined.
 - **Boiling point/Boiling range:** Undetermined.
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not determined.
- **Auto/Self-ignition temperature:** Not determined.
- **Decomposition temperature:** Not determined.
- **Self-igniting:** Product is not self-igniting.
- **Danger of explosion:** Heating may cause an explosion.
- **Explosion limits:**
 - **Lower:** Not determined.
 - **Upper:** Not determined.
- **Vapour pressure:** Not applicable.
- **Density:** Not determined.
- **Relative density** Not determined.
- **Vapour density** Not applicable.
- **Evaporation rate** Not applicable.
- **Solubility in / Miscibility with water:** Insoluble.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - **Dynamic:** Not applicable.
 - **Kinematic:** Not applicable.

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· **9.2 Other information**

No further relevant information available.

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SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Danger of explosion.
Toxic fumes may be released if heated above the decomposition point.
Reacts with strong acids and alkali.
Reacts violently with oxidizing agents.
- **10.4 Conditions to avoid** Sources of ignition, open flame, incompatible materials.
- **10.5 Incompatible materials:** Oxidizers
- **10.6 Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Nitrogen oxides
Sulphur oxides (SO_x)

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

55-63-0 glycerol trinitrate

Oral	LD50	115 mg/kg (mouse)
		105 mg/kg (rat)
Dermal	LD50	29 mg/kg (rat)
		280 mg/kg (rabbit)

84-74-2 dibutyl phthalate

Oral	LD50	8000 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)

122-39-4 diphenylamine

Oral	LD50	1120 mg/kg (rat)
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15245-44-0 lead 2,4,6-trinitro-m-phenylene dioxide

Oral	LD50	650 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:**
Not a skin irritant in unused form. Vapors/particles from used product are possibly irritating to skin.
- **on the eye:**
Not an eye irritant in unused form. Vapors/particles from used product are possibly irritating to eyes.

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- **Additional toxicological information:**

Normal handling of the undeployed product poses little or no health hazards, One should avoid inhalation by wearing appropriate respiratory protection when exposed to the chemical ingredients of the product above listed TLV's or when exposed to the post ignition by-products. This product is a canister which contains the various components completely sealed within. Therefore, under normal handling of this product, no exposure to any harmful materials will occur. When the product is used, particles may be generated which may be irritating to the eyes and the respiratory tract.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** May be accumulated in organism
- **12.4 Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:** Harmful to fish

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary

Harmful to aquatic organisms

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

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 treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN-Number**
- **DOT, ADR, IMDG, IATA** UN0012
- **14.2 UN proper shipping name**
- **DOT, IMDG, IATA** CARTRIDGES FOR WEAPONS, INERT PROJECTILE
- **ADR** 0012, CARTRIDGES FOR WEAPONS, INERT PROJECTILE
- **14.3 Transport hazard class(es)**
- **DOT, ADR, IMDG**
- 

- **Class** 1.4
- **Label** 1.4S

- **IATA**
- 
- **Class** 1.4
- **Label** 1.4S
- **14.4 Packing group**
- **DOT, ADR, IMDG, IATA** II
- **14.5 Environmental hazards:**
- **Marine pollutant:** No
- **Special marking (ADR):** Symbol (fish and tree)
- **14.6 Special precautions for user:** Symbol (fish and tree)
- **EMS Number:** Not applicable.
- **EMS Number:** F-A,S-Q
- **Segregation groups** Heavy metals and their salts (including their organometallic compounds)
- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** UN0012, CARTRIDGES FOR WEAPONS, INERT PROJECTILE, 1.4S, II

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SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

55-63-0 glycerol trinitrate

84-74-2 dibutyl phthalate

122-39-4 diphenylamine

7757-79-1 potassium nitrate

86-30-6 nitrosodiphenylamine

7440-50-8 copper

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65 (California):

· Chemicals known to cause cancer:

86-30-6 nitrosodiphenylamine

15245-44-0 lead 2,4,6-trinitro-m-phenylene dioxide

· Chemicals known to cause reproductive toxicity for females:

84-74-2 dibutyl phthalate

· Chemicals known to cause reproductive toxicity for males:

84-74-2 dibutyl phthalate

· Chemicals known to cause developmental toxicity:

84-74-2 dibutyl phthalate

15245-44-0 lead 2,4,6-trinitro-m-phenylene dioxide

· Carcinogenic Categories

· EPA (Environmental Protection Agency)

84-74-2 dibutyl phthalate

D

86-30-6 nitrosodiphenylamine

B2

7440-50-8 copper

D

7440-66-6 zinc metal

D, I, II

· IARC (International Agency for Research on Cancer)

86-30-6 nitrosodiphenylamine

3

· TLV (Threshold Limit Value established by ACGIH)

122-39-4 diphenylamine

A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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Safety Data Sheet

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- **Canada**

- **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

- **Canadian Ingredient Disclosure list (limit 0.1%)**

122-39-4 diphenylamine

86-30-6 nitrosodiphenylamine

- **Canadian Ingredient Disclosure list (limit 1%)**

84-74-2 dibutyl phthalate

7440-50-8 copper

- **Other regulations, limitations and prohibitive regulations**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

- **Substances of very high concern (SVHC) according to REACH, Article 57**

84-74-2 dibutyl phthalate

15245-44-0 lead 2,4,6-trinitro-m-phenylene dioxide

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H200 Unstable explosives.

H201 Explosive; mass explosion hazard.

H225 Highly flammable liquid and vapour.

H272 May intensify fire; oxidiser.

H300 Fatal if swallowed.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H310 Fatal in contact with skin.

H311 Toxic in contact with skin.

H317 May cause an allergic skin reaction.

H330 Fatal if inhaled.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H360Df May damage the unborn child. Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

R20/22 Harmful by inhalation and if swallowed.

R22 Harmful if swallowed.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

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- R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.
 R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.
 R33 Danger of cumulative effects.
 R43 May cause sensitisation by skin contact.
 R50 Very toxic to aquatic organisms.
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R61 May cause harm to the unborn child.
 R62 Possible risk of impaired fertility.
 R8 Contact with combustible material may cause fire.

• **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 ACGIH: American Conference of Governmental Industrial Hygienists
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 WHMIS: Workplace Hazardous Materials Information System (Canada)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 Expl. 1.1: Explosives, Division 1.1
 Expl. 1.4: Explosives, Division 1.4
 Unst. Expl.: Explosives, Unstable explosives
 Flam. Liq. 2: Flammable liquids, Hazard Category 2
 Ox. Sol. 2: Oxidising Solids, Hazard Category 2
 Acute Tox. 2: Acute toxicity, Hazard Category 2
 Acute Tox. 3: Acute toxicity, Hazard Category 3
 Acute Tox. 4: Acute toxicity, Hazard Category 4
 Acute Tox. 1: Acute toxicity, Hazard Category 1
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
 Repr. 1A: Reproductive toxicity, Hazard Category 1A
 Repr. 1B: Reproductive toxicity, Hazard Category 1B
 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
 Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

• **Sources**

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