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

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

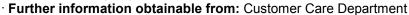
- · 1.1 Product identifier
- · Trade name: Skat Shell® 40 mm Multiple Projectile Round, CS
- · Article number: 6172 (1012173)
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture Crowd Control Device
- · Uses advised against Contact manufacturer.
- · 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





ChemTel Inc.

(800)255-3924, +1 (813)248-0585

Poison Control Centres:

In the United Kingdom: 844 892 0111

In Australia: 131126

In New Zealand: +0800 764 766



SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Classifications listed are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).

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.



skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed. Acute Tox. 3 H331 Toxic if inhaled.



health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

(Cont'd. on page 2)

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

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environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Acute Tox. 4 H312 Harmful in contact with skin.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335 May cause respiratory irritation.

Additional information:

There are no other hazards not otherwise classified that have been identified.

0 % of the mixture consists of component(s) of unknown toxicity.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS).

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

Hazard pictograms









GHS01 GHS06 GHS08 GHS09

· Signal word Danger

· Hazard-determining components of labelling:

glycerol trinitrate / nitroglycerin

[(2-chlorophenyl)methylene]malononitrile

potassium perchlorate

diphenylamine

Rosin

· 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.

H301+H331 Toxic if swallowed or if inhaled.

Harmful in contact with skin. H312

H315 Causes skin irritation.

H319 Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled. H334

May cause an allergic skin reaction. H317

May cause respiratory irritation. H335

H411 Toxic to aquatic life with long lasting effects.

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· 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, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P250 Do not subject to grinding/shock/friction.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P285 In case of inadequate ventilation wear respiratory protection.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P373 DO NOT fight fire when fire reaches explosives.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P374 Fight fire with normal precautions from a reasonable distance.

P372 Explosion risk in case of fire.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

regulations.

· Additional information:

Can become highly flammable in use.

NFPA ratings (scale 0 - 4)



Health = 4 Fire = 0 Reactivity = 3

· HMIS-ratings (scale 0 - 4)

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



Indicates a long term health hazard from repeated or prolonged exposures.

| · HMIS Long | Term Health Hazard Substances |
|-------------|---|
| 7778-74-7 | potassium perchlorate |
| 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.

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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:

Product will contain various combinations of the following substances. Not all substances will be in each product. .

| <u></u> | |
|---|--|
| · Dangerous components: | |
| CAS: 9004-70-0 EC number: 603-037-0 | Nitrocellulose, colloided, granular Expl. 1.1, H201 |
| CAS: 2698-41-1 EINECS: 220-278-9 | [(2-chlorophenyl)methylene]malononitrile Acute Tox. 3, H301; Acute Tox. 2, H330 Resp. Sens. 1, H334 Aquatic Acute 1, H400 Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 |
| CAS: 55-63-0 EINECS: 200-240-8 Index number: 603-034-00-X | glycerol trinitrate / nitroglycerin 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 |
| CAS: 7757-79-1 EINECS: 231-818-8 | potassium nitrate Ox. Sol. 2, H272 |
| CAS: 7778-74-7 EINECS: 231-912-9 Index number: 017-008-00-5 | potassium perchlorate Ox. Sol. 1, H271 Acute Tox. 4, H302 |
| CAS: 122-39-4 EINECS: 204-539-4 Index number: 612-026-00-5 | diphenylamine Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT RE 2, H373 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 |
| CAS: 85-98-3 EINECS: 201-645-2 | 1,3-diethyldiphenylurea Acute Tox. 4, H302 Aquatic Chronic 3, H412 |
| CAS: 1309-48-4 EINECS: 215-171-9 Index number: 025-199-09-0 | magnesium oxide substance with a Community workplace exposure limit |
| | (Cont'd. on page 5 |

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| | (Cont'd. from page 4 | | |
|---|---|--|--|
| CAS: 69012-64-2 | Silica-Amorphous Silica fume | | |
| EINECS: 273-761-1 | substance with a Community workplace exposure limit | | |
| CAS: 7439-89-6 | iron | | |
| EINECS: 231-096-4 | substance with a Community workplace exposure limit | | |
| CAS: 7440-50-8 | copper | | |
| EINECS: 231-159-6 | substance with a Community workplace exposure limit | | |
| CAS: 7704-34-9 | sulfur | | |
| EINECS: 231-722-6 | ♦ Skin Irrit. 2, H315 | | |
| Index number: 016-094-00-1 | | | |
| CAS: 1314-23-4 | zirconium dioxide | | |
| EINECS: 215-227-2 | substance with a Community workplace exposure limit | | |
| CAS: 10022-31-8 | barium nitrate | | |
| EINECS: 233-020-5 | 1 Acute Tox. 4, H302; Acute Tox. 4, H332 | | |
| Index number: 056-002-00-7 | | | |
| ·SVHC | | | |
| 15245-44-0 lead 2,4,6-trinitr | 15245-44-0 lead 2,4,6-trinitro-m-phenylene dioxide | | |
| · Additional information: For the wording of the listed Hazard Statements refer to section 16. For the listed ingredients, the identity and exact percentages are being withheld as a trade secret. | | | |
| Notable Trace Components | s (≤ 0,1% w/w) | | |
| CAS: 15245-44-0 | lead 2,4,6-trinitro-m-phenylene dioxide | | |
| EINECS: 239-290-0 | Unst. Expl., H200 | | |
| Index number: 609-019-00-4 | | | |
| | Aquatic Acute 1, H400; Aquatic Chronic 1, H410 | | |
| 0.40, 500, 07.0 | Acute Tox. 4, H302; Acute Tox. 4, H332 | | |
| CAS: 592-87-0 | lead dithiocyanate | | |
| EINECS: 209-774-6 Index number: 082-001-00-6 | © Carc. 1B, H350; Repr. 1A, H360Df; STOT RE 2, H373 | | |
| muex number. 002-001-00-0 | Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302; Acute Tox. 4, H332 | | |
| | (1) Acute 10x. 4, 11002, Acute 10x. 4, 11002 | | |

SECTION 4: First aid measures

· 4.1 Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

Remove breathing equipment only after contaminated clothing have been completely removed.

· After inhalation:

Remove victim to fresh air.

Seek immediate medical advice.

Provide oxygen treatment if affected person has difficulty breathing.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After skin contact:

Immediately remove any clothing soiled by the product.

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

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Brush off loose particles from skin.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, 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:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

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

Asthma attacks

Blast injury if mishandled.

Allergic reactions

May cause respiratory irritation.

Breathing difficulty

Coughing

Irritant to eyes.

Irritant to skin and mucous membranes.

· Hazards

Danger of blast or crush-type injuries.

Harmful in contact with skin.

Danger of impaired breathing.

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.

Contains [(2-chlorophenyl)methylene]malononitrile. May produce an allergic reaction.

Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.

In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.

Monitor circulation, possible shock treatment.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

If necessary oxygen respiration treatment.

Medical supervision for at least 48 hours.

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.

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· Additional information

Eliminate all ignition sources if safe to do so.

Cool endangered receptacles with water spray.

Evacuate area and fight fire from from the upwind side.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. 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.

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.

Use respiratory protective device against the effects of fumes/dust/aerosol.

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 section 13.

Send for recovery or disposal in suitable receptacles.

Clean the affected area carefully; suitable cleaners are:

Warm water and cleansing agent

· 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.

Avoid breathing dust.

Use only in well ventilated areas.

Information about fire - and explosion protection:

Protect from heat.

Keep respiratory protective device available.

Emergency cooling must be available in case of nearby fire.

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- · 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 dry conditions.
- 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 section 7.
- · 8.1 Control parameters

| · 8.1 Control parameters | | |
|---|--|--|
| · Ingredients with limit values that require monitoring at the workplace: | | |
| 1309-48-4 magnesium oxide | | |
| PEL (USA) | Long-term value: 15* mg/m³ fume; *total particulate | |
| TLV (USA) | Long-term value: 10* mg/m³ *as inhalable fraction | |
| EL (Canada) | Short-term value: 10** mg/m³ Long-term value: 10* 3** mg/m³ *inhalable fume;**respirable dust and fume | |
| EV (Canada) | Long-term value: 10 mg/m³ inhalable | |
| 69012-64-2 S | ilica-Amorphous Silica fume | |
| TLV (USA) | TLV withdrawn | |
| EL (Canada) | Long-term value: 4* 1,5** mg/m³ fume *total; **respirable | |
| EV (Canada) | Long-term value: 2 mg/m³ respirable | |
| 55-63-0 glyce | erol trinitrate / nitroglycerin | |
| PEL (USA) | Ceiling limit: 2 mg/m³, 0,2 ppm Skin | |
| REL (USA) | Short-term value: 0,1 mg/m³ Skin | |
| TLV (USA) | Long-term value: 0,46 mg/m³, 0,05 ppm Skin | |
| EL (Canada) | Long-term value: 0,05 ppm Skin | |
| EV (Canada) | Long-term value: 0,5 mg/m³, 0,05 ppm Skin | |
| | (Cont'd. on page 9 | |

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| | | (Cont'd. from page |
|---------------|--|--------------------|
| 2698-41-1 [(2 | -chlorophenyl)methylene]malononitrile | (conta. nom page |
| PEL (USA) | Long-term value: 0,4 mg/m³, 0,05 ppm | |
| REL (USA) | Ceiling limit: 0,4 mg/m³, 0,05 ppm Skin | |
| TLV (USA) | Ceiling limit: 0,39 mg/m³, 0,05 ppm Skin | |
| EL (Canada) | Ceiling limit: 0,05 ppm Skin | |
| EV (Canada) | Ceiling limit: 0,4 mg/m³, 0,05 ppm Skin | |
| 7439-89-6 iro | 'n | |
| EV (Canada) | Long-term value: 1* 5** mg/m³ as iron;*salts, water-soluble;**welding fume | |
| 7440-50-8 co | pper | |
| PEL (USA) | Long-term value: 1* 0,1** mg/m³ as Cu *dusts and mists **fume | |
| REL (USA) | Long-term value: 1* 0,1** mg/m³ as Cu *dusts and mists **fume | |
| TLV (USA) | Long-term value: 1* 0,2** mg/m³ *dusts and mists; **fume; as Cu | |
| EL (Canada) | Long-term value: 1* 0,2** mg/m³ *dusts and mists; **fume, as Cu | |
| EV (Canada) | Long-term value: 0,2* 1** mg/m³ as copper, *fume;**dust and mists | |
| 1314-23-4 zir | conium dioxide | |
| PEL (USA) | Long-term value: 5 mg/m³ as Zr | |
| REL (USA) | Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as Zr | |
| TLV (USA) | Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as Zr | |
| EL (Canada) | Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as Zr | |
| 8050-09-7 Ro | sin | |
| TLV (USA) | DSEN, RSEN, L | |
| EL (Canada) | | |
| 122-39-4 dipl | | |
| REL (USA) | Long-term value: 10 mg/m³ | |
| TLV (USA) | Long-term value: 10 mg/m³ | |
| , , | | (Cont'd. on page |

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

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| | | Cont'd. from page 9) |
|---------------|---|----------------------|
| EL (Canada) | Long-term value: 10 mg/m³ | |
| EV (Canada) | Long-term value: 10 mg/m³ | |
| 15245-44-0 le | lead 2,4,6-trinitro-m-phenylene dioxide | |
| EV (Canada) |) Long-term value: 0,05 mg/m³ as Pb, Skin (organic compounds) | |
| 10022-31-8 b | barium nitrate | |
| IOELV (EU) | Long-term value: 0,5 mg/m³ as Ba | |
| PEL (USA) | Long-term value: 0,5 mg/m³ as Ba | |
| REL (USA) | Long-term value: 0,5 mg/m³ as Ba | |
| TLV (USA) | Long-term value: 0,5 mg/m³ as Ba | |
| EL (Canada) | Long-term value: 0,5 mg/m³ as Ba | |
| 1345-04-6 an | ntimony sulphide | |
| PEL (USA) | Long-term value: 0,5 mg/m³ as Sb | |
| REL (USA) | Long-term value: 0,5 mg/m³ as Sb | |
| TLV (USA) | Long-term value: 0,5 mg/m³ as Sb | |
| EL (Canada) | Long-term value: 0,5 mg/m³ as Sb | |
| DAIL I | | |

- **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
- Engineering measures Provide adequate ventilation.
- · Personal protective equipment:
- · General protective and hygienic measures:

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

Immediately remove all soiled and contaminated clothing.

Do not inhale dust / smoke / mist.

Avoid contact with the eyes and skin.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Respiratory protection:



Respiratory protection required.

Wear positive pressure NIOSH or European EN149 vapor respirators when deploying product in large quantities.

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

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· Protection of hands:



Protective gloves

Wear gloves when handling deployed rounds.

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
- · 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:Odour threshold:Odour threshold:Odour threshold:Odour threshold:Not determined.Not applicable.

· Change in condition

Melting point/Melting range:
Boiling point/Boiling range:
Undetermined.

Flash point:
Not applicable.

Flammability (solid, gaseous):
Not determined.

(Cont'd. on page 12)

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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:
Upper:
Not determined.
Not determined.

Vapour pressure:
Not applicable.

Density:
Relative density
Vapour density
Vapour density
Evaporation rate
Not determined.
Not applicable.
Not applicable.

· Solubility in / Miscibility with

water: Insoluble.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not applicable. **Kinematic:** Not applicable.

• 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 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.

Contact with acids releases toxic gases.

Acts as an oxidising agent on organic materials such as wood, paper and fats.

Reacts with strong alkali.

- **10.4 Conditions to avoid** Sources of ignition, open flame, incompatible materials.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides

Sulphur oxides (SOx)

(Cont'd. on page 13)

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SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity

Toxic if swallowed or if inhaled.

Harmful in contact with skin.

| | Tidifficial in Contact With Cities | | |
|----------|--|--------------------------------|--|
| · LD/LC5 | · LD/LC50 values relevant for classification: | | |
| 55-63-0 | glyce | rol trinitrate / nitroglycerin | |
| Oral | LD50 | 115 mg/kg (mouse) | |
| | | 105 mg/kg (rat) | |
| Dermal | LD50 | 29 mg/kg (rat) | |
| | | 280 mg/kg (rabbit) | |
| 2698-41 | 2698-41-1 [(2-chlorophenyl)methylene]malononitrile | | |
| Oral | LD50 | 178 mg/kg (rat) | |
| 122-39- | 122-39-4 diphenylamine | | |
| Oral | LD50 | 1120 mg/kg (rat) | |
| 15245-4 | 15245-44-0 lead 2,4,6-trinitro-m-phenylene dioxide | | |
| Oral | LD50 | 650 mg/kg (rat) | |
| | | | |

· Primary irritant effect:

Effects based on exposure to dusts/mists/spray/vapours released during deployment. Unused product does not possess these effects.

· Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye irritation.

· Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

· 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 cansister 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.

Severe allergic skin reaction, bronchial spasms and anaphylactic shock are possible.

Acute effects (acute toxicity, irritation and corrosivity):

Irritating to eyes, respiratory system and skin.

Inhalation may cause irritation to the respiratory system.

Repeated dose toxicity:

May cause damage to organs through prolonged or repeated exposure.

Repeated exposures may result in skin and/or respiratory sensitivity.

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

· Carcinogenicity

Based on available data, the classification criteria are not met.

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

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· Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

· Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity:

The product contains materials that are harmful to the environment.

2698-41-1 [(2-chlorophenyl)methylene]malononitrile

EC50 0,2-0,3 mg/kg (Oncorhynchus mykiss)

96 H

- 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.
- · Ecotoxical 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 local official regulations.

SECTION 14: Transport information

· 14.1 UN-Number

· DOT, ADR, IMDG, IATA UN0301

· 14.2 UN proper shipping name

DOT, IMDG, IATA Ammunition Tear-producing with burster, expelling

charge or propelling charge

• ADR 0301 Ammunition Tear-producing with burster,

expelling charge or propelling charge

· 14.3 Transport hazard class(es)

· DOT



· Class 1.4

Label 1.4G+6.1+8

· ADR, IMDG



· Class 1.4

· **Label** 1.4G+6.1+8

·IATA



· Class 1.4G

· **Label** 1.4G+6.1+8

· 14.4 Packing group · DOT, ADR, IMDG, IATA

14.5 Environmental hazards:

· Marine pollutant: No

· Special marking (IATA):



Cargo Aircraft Only.

· 14.6 Special precautions for user

· EMS Number:

Not applicable.

F-A,S-Q

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· 14.7 Transport in bulk according to Annex II of

Marpol and the IBC Code

Not applicable.

UN "Model Regulation":

UN0301, Ammunition Tear-producing with burster, expelling charge or propelling charge, 1.4G (6.1+8), II

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 are listed.

· Section 313 (Specific toxic chemical listings):

| 7757-79-1 | potassium nitrate |
|-----------|-------------------------------------|
| 55-63-0 | glycerol trinitrate / nitroglycerin |

7440-50-8 copper

7440-66-6 zinc metal

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- Proposition 65 (California):
- · Chemicals known to cause cancer:

Present in trace quantities.

| 15245-44-0 | lead 2,4,6-trinitro-m-phenylene dioxide |
|------------|---|
| 592-87-0 | lead dithiocyanate |

Chemicals known to cause reproductive toxicity for females:

Present in trace quantities.

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

Present in trace quantities.

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

Present in trace quantities.

| 15245-44-0 | lead 2,4,6-trinitro-m-phenylene dioxide |
|------------|---|
| 592-87-0 | lead dithiocyanate |

Carcinogenic Categories

| · EPA (Environmental Protection Agency) | | |
|---|-----------------------|-----------------------|
| 7440-50-8 | copper | D |
| 7778-74-7 | potassium perchlorate | NL |
| 7440-66-6 | zinc metal | D, I, II |
| 10022-31-8 | barium nitrate | D, CBD(inh), NL(oral) |
| | | (Cont'd. on page 17) |

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| | (Cont'd. from pa | 200 16) |
|--|--|---------|
| IARC (International Agency for Research on Cancer) | | |
| , , , , , , , , , , , , , , , , , , , | | |
| | Silica-Amorphous Silica fume | 3 |
| 1 | silicon dioxide | 3 |
| 1345-04-6 | antimony sulphide | 3 |
| · TLV (Threshold Limit Value established by ACGIH) | | |
| 1309-48-4 | magnesium oxide | A4 |
| 2698-41-1 | [(2-chlorophenyl)methylene]malononitrile | A4 |
| 1314-23-4 | zirconium dioxide | A4 |
| 122-39-4 | diphenylamine | A4 |
| 10022-31-8 | barium nitrate | A4 |
| · NIOSH-Ca (National Institute for Occupational Safety and Health) | | |
| None of the ingredients are listed. | | |
| · Canada | | |
| · Canadian Domestic Substances List (DSL) | | |
| All ingredients are listed. | | |
| · Canadian Ingredient Disclosure list (limit 0.1%) | | |
| 122-39-4 diphenylamine | | |
| · Canadian Ingredient Disclosure list (limit 1%) | | |
| 1309-48-4 | magnesium oxide | |
| 2698-41-1 | [(2-chlorophenyl)methylene]malononitrile | |
| 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 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.

H271 May cause fire or explosion; strong oxidiser.

H272 May intensify fire; oxidiser.

H300 Fatal if swallowed.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

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

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H310 Fatal in contact with skin.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

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.

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 Harmonised 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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

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. 1: Oxidising Solids, Hazard Category 1

Ox. Sol. 2: Oxidising Solids, Hazard Category 2 Acute Tox. 3: Acute toxicity, Hazard Category 3

Acute Tox. 1: Acute toxicity, Hazard Category 1 Acute Tox. 4: Acute toxicity, Hazard Category 4

Acute Tox. 2: Acute toxicity, Hazard Category 2

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, 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

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· Sources

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