

Printing date: September 26, 2014 Revision: : September 26, 2014

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

- · 1.1 Product identifier
- · Trade name: 40MM Liquid Ferret CS
- · Article number: 1262
- · 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



exploding bomb

Expl. 1.4 H204 Fire or projection hazard.



health hazard

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

Carc. 2 H351 Suspected of causing cancer.



Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation.

Eve 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.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xn; Harmful

R20/22-40: Harmful by inhalation and if swallowed. Limited evidence of a carcinogenic effect.

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Xn; Sensitising

R42/43: May cause sensitisation by inhalation and skin contact.

Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

R5-44-52/53: Heating may cause an explosion. Risk of explosion if heated under confinement. Harmful

to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· 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.

· 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







GHS01 GHS07 GHS08

· Signal word Danger

Hazard-determining components of labelling:

[(2-chlorophenyl)methylene]malononitrile

dichloromethane

glycerol trinitrate

Rosin

· Hazard statements

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.

H204 Fire or projection hazard.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

Precautionary statements

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

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

P250 Do not subject to grinding/shock/friction.
P260 Do not breathe mist/vapours/spray.

P285 In case of inadequate ventilation wear respiratory protection.

P280 Wear protective gloves / eye protection.

P202 Do not handle until all safety precautions have been read and understood.

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 or doctor/physician.

P374 Fight fire with normal precautions from a reasonable distance.

P372 Explosion risk in case of fire.

P308+P313 IF exposed or concerned: Get medical advice/attention. 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.

- · Hazard description:
- · WHMIS-symbols:

D1B - Toxic material causing immediate and serious toxic effects

D2A - Very toxic material causing other toxic effects

- E Corrosive material
- F Dangerously reactive material









· NFPA ratings (scale 0 - 4)



Health = 3Fire = 2

Reactivity = 3

· HMIS-ratings (scale 0 - 4)



Health = *3Fire = 2

REACTIVITY 3 Reactivity = 3

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

· HMIS Long Term Health Hazard Substances

75-09-2 dichloromethane

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

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· Explosive Product Notice

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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

Dangerous components:		
CAS: 1309-48-4 EINECS: 215-171-9 Index number: 025-199-09-0	magnesium oxide	40-60%
CAS: 2698-41-1 EINECS: 220-278-9	[(2-chlorophenyl)methylene]malononitrile ☐ T R25; ☐ Xn R42/43; ☐ N R50 ☐ Acute Tox. 3, H301 ☐ Resp. Sens. 1, H334 ☐ Aquatic Acute 1, H400 ☐ Skin Sens. 1, H317	20-40%
CAS: 9004-70-0 EC number: 603-037-0	Nitrocellulose, colloided, granular E R3 Expl. 1.1, H201	5-10%
CAS: 55-63-0 EINECS: 200-240-8 Index number: 603-034-00-X	glycerol trinitrate	5-10%
CAS: 7757-79-1 EINECS: 231-818-8	potassium nitrate O R8 Ox. Sol. 2, H272	1-5%

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CAS: 8050-09-7 EINECS: 232-475-7	Rosin Xi R43	< 1,0%
Index number: 650-015-00-7		
CAS: 7704-34-9 EINECS: 231-722-6	sulfur Xi R38	< 1,0%
Index number: 016-094-00-1	₩ Sittir III it 2) 1 io 10	
CAS: 122-39-4 EINECS: 204-539-4 Index number: 612-026-00-5	diphenylamine T R23/24/25; N R50/53 R33	< 1,0%
	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 Xn R22 Acute Tox. 4, H302	< 1,0%
	Aquatic Chronic 3, H412	
CAS: 7440-50-8 EINECS: 231-159-6	copper	< 1,0%
CAS: 7440-66-6	zinc metal N R50/53	< 1,0%
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	

R50/53

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.

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· After skin contact:

Immediately remove any clothing soiled by the product.

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

Allergic reactions

Blast injury if mishandled.

May cause respiratory irritation.

Breathing difficulty

Coughing

Irritant to eyes.

Irritant to skin and mucous membranes.

· Hazards

Danger of blast or crush-type injuries.

Danger of impaired breathing.

Suspected of causing cancer.

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 methylene chloride.

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.

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· 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.

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.

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.

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 item 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.

Use only in well ventilated areas.

· Information about fire - and explosion protection:

Protect from heat.

Keep respiratory protective device available.

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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.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

75-09-2 dichloromethane

PEL (USA)	Short-term value: 125 ppm
	Long-term value: 25 ppm

see 29 CFR 1910,1052

REL (USA) See Pocket Guide App. A

TLV (USA) Long-term value: 174 mg/m³, 50 ppm

BEI

EL (Canada) Long-term value: 25 ppm

IARC 2B

EV (Canada) Long-term value: 175 mg/m³, 50 ppm

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

PEL (USA)	Long-term	value:	0.4	ma/m³.	0.05	mag
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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

55-63-0 glycerol trinitrate

PEL (USA) Ceiling limit: 2 mg/m³, 0,2 ppm

Skin

REL (USA) Short-term value: 0,1 mg/m³

Skin

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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

Skir

8050-09-7 Rosin

TLV (USA) DSEN, RSEN, L

EL (Canada) S

- · **DNELs** No further relevant information available.
- · PNECs No further relevant information available.
- · Ingredients with biological limit values:

75-09-2 dichloromethane

BEI (USA) 0,3 mg/L

Medium: urine Time: end of shift

Parameter: Dichloromethane (semi-quantitative)

- · 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.

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.

· 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.

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· 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:
 pH-value:
 Odourless
 Not determined.
 Not applicable.

· Change in condition

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

Flash point:
Flammability (solid, gaseous):
Auto/Self-ignition temperature:
Not determined.

Not determined.

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:
• Density:
Relative density
Not determined.
Not determined.
Not determined.

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Vapour densityEvaporation rateNot 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
- · 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.

Reacts with certain metals.

- 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)

Chlorine compounds

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values relevant for classification:

75-09-2 dichloromethane

Oral LD50 1600 mg/kg (rat) Inhalative LC50/4h 88 mg/l (rat)

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

Oral LD50 178 mg/kg (rat)

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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)

· Primary irritant effect:

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

- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitisation:

Sensitisation possible through inhalation.

Sensitisation possible through skin contact.

· 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.

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

Harmful

Danger through skin adsorption.

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

· Acute effects (acute toxicity, irritation and corrosivity):

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):

Carc. 2

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.

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- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Danger to drinking water if even extremely small quantities leak into the ground.

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.

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

SECTION 14: Transport information

· 14.1 UN-Number

· DOT, ADR, IMDG, IATA

· 14.2 UN proper shipping name

· DOT, IMDG, IATA

· ADR

IATA UN0301

Ammunition Tear-producing with burster, expelling

charge or propelling charge

0301 Ammunition Tear-producing with burster,

expelling

charge or propelling charge

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

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· 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



1.4G · Class

· Label 1.4G+6.1+8

· 14.4 Packing group

· DOT, ADR, IMDG, IATA Ш

· 14.5 Environmental hazards:

· Marine pollutant: No

· Special marking (IATA):



Cargo Aircraft Only.

· 14.6 Special precautions for user

· EMS Number: F-A,S-Q

· Segregation groups Liquid halogenated hydrocarbons

· 14.7 Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code

Not applicable.

· UN "Model Regulation": UN0301, Ammunition Tear-producing with burster,

Not applicable.

expelling

charge or propelling charge, 1.4G (6.1+8), II

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	15: Regulatory information	
15.1 Safety, United State SARA	health and environmental regulations/legislation specific for the substance or r s (USA)	nixtur
Section 355	(extremely hazardous substances):	
None of the i	ngredients are listed.	
Section 313	(Specific toxic chemical listings):	
75-09-2 d	chloromethane	
55-63-0 g	ycerol trinitrate	
7757-79-1 p	otassium nitrate	
TSCA (Toxio	Substances Control Act):	
All ingredient	s are listed.	
•	65 (California):	
	nown to cause cancer:	
	dichloromethane	
15245-44-0	ead 2,4,6-trinitro-m-phenylene dioxide	
Chemicals k	nown to cause reproductive toxicity for females:	
None of the i	ngredients are listed.	
Chemicals k	nown to cause reproductive toxicity for males:	
	ngredients are listed.	
	nown to cause developmental toxicity: ce quantities.	
	ead 2,4,6-trinitro-m-phenylene dioxide	
	c Categories	
•	nmental Protection Agency)	
75-09-2 dich	oromethane	
•	ational Agency for Research on Cancer)	
75-09-2 dich	oromethane	2
TLV (Thresh	old Limit Value established by ACGIH)	
	chloromethane	Α
2698-41-1 [(2-chlorophenyl)methylene]malononitrile	Д
NIOSH-Ca (I	lational Institute for Occupational Safety and Health)	
75-09-2 dich	oromethane	
Canada		
Canadian D	mestic Substances List (DSL)	
All ingredient	s are listed.	
Canadian In	gredient Disclosure list (limit 0.1%)	

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· Canadian Ingredient Disclosure list (limit 1%)

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

· 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

None of the ingredients are listed.

· 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

specifi	c product features and shall not establish a legally valid contractual relationship.
· Relev	ant 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.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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.
R22	Harmful if swallowed.
R23/2	4/25 Toxic by inhalation, in contact with skin and if swallowed.
R25	Toxic if swallowed.
R26/2	7/28 Very toxic by inhalation, in contact with skin and if swallowed.

Extreme risk of explosion by shock, friction, fire or other sources of ignition. R3

R33 Danger of cumulative effects.

R38 Irritating to skin.

R42/43 May cause sensitisation by inhalation and skin contact.

May cause sensitisation by skin contact. R43

Very toxic to aquatic organisms. R50

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

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R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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 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)

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 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

Carc. 2: Carcinogenicity, Hazard Category 2

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

Sources

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