Cartridge 5.56 mm Securiblank® TOXFREE®

SECTION 1. IDENTIFICATION

Product Identifier Cartridge 5.56 mm Securiblank® TOXFREE®

Other Means of

Revision 1

Identification

Product Family Cartridge, 5.56 mm

Manufacturer/Supplier General Dynamics - Ordnance and Tactical Systems - Canada Inc, 5, Montée des Arsenaux,

Identifier Repentigny, Québec, J5Z 2P4, 450-581-3080

Emergency Phone No. MD-UN, 1-888-922-3330, (Canada/U.S.A)

SDS No. 0330

Date of Preparation juin 08, 2021

SECTION 2. HAZARD IDENTIFICATION

Classification

Explosive - Division 1.4; Reproductive toxicity - Category 2; Aquatic hazard (Acute) - Category 3

Label Elements





Signal Word: Warning

Hazard Statement(s):

Fire or projection hazard.

Suspected of damaging fertility or the unborn child.

Harmful to aquatic life.

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep only in original packaging.

Do not subject to grinding, shock, or friction.

Wear face protection. protective gloves

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

Avoid release to the environment.

Response:

In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.

IF exposed or concerned: Get medical advice/attention.

Storage:

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Store in accordance with local, regional, national and international regulations.

Dispose of contents and container in accordance with local, regional, national and international regulations.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards

This product is an explosive article which is composed of a finished cartridge containing various components that are sealed completely within the cartridge. Under normal conditions of handling, no exposure to any of the harmful components inside the cartridge is expected and no health effects are generally expected as supplied. When cartridges are fired, or otherwise discharged, gases, fumes and projectiles may be formed. These gases, fumes and projectiles may contain trace amounts of the components inside the cartridges. These gases, fumes and projectiles may be irritating to the eyes, skin and respiratory tract.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Copper	7440-50-8	45-70	
Zinc metal	7440-66-6	10-30	
Poly(oxymethylene)	9002-81-7	10-30	Acetal
Polypropylene	9003-07-0	1-5	PP
Diazodinitrophenol	87-31-0	trace	DDNP
Nitrocellulose	9004-70-0	0.1-1	NC
Potassium nitrate	7757-79-1	trace	
Nitroglycerin	55-63-0	0.1-1	NG
Bismuth oxide	1304-76-3	0.1-1	
Tetrazene	54410-57-0	trace	
Ethyl centralite	85-98-3	trace	
Diphenylamine	122-39-4	trace	
Graphite (natural)	7782-42-5	trace	
Dibutyl phthalate	84-74-2	trace	
Polyester adipate		trace	
Rosin	8050-09-7	trace	
N-Nitrosodiphenylamine	86-30-6	trace	
Potassium sulfate	7778-80-5	trace	
Calcium carbonate	471-34-1	trace	
Aluminum powder, uncoated	7429-90-5	trace	
2,4-Dinitrotoluene	121-14-2	trace	DNT
Arkadite II	13114-72-2	trace	
Ethyl acetate	141-78-6	trace	
Tin dioxide	18282-10-5	trace	
Bismuth	7440-69-9	trace	
Pentaerythritol tetranitrate	78-11-5	trace	PETN

Notes

Concentrations listed above are the final concentration in the complete finished cartridge.

The exact concentration of ingredients has been withheld as a trade secret.

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SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

None required under normal conditions.

If projectiles are fired, or otherwise discharged, the following treatment may be necessary:

Move to fresh air.

Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

None required under normal conditions.

If cartridges are fired, or otherwise discharged, the following treatment may be necessary:

Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes.

If exposed or concerned, get medical advice or attention.

Eye Contact

None required under normal conditions.

If cartridges are fired, or otherwise discharged, the following treatment may be necessary:

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open.

If eye irritation persists, get medical advice or attention.

Ingestion

None required under normal conditions.

Not expected, based upon the current form of the product.

Most Important Symptoms and Effects, Acute and Delayed

If cartridges are fired, or otherwise discharged, gases, fumes and projections may be formed. These gases, fumes and projections may contain trace amounts of the components inside the cartridges. These gases, fumes and projections may be irritating to the eyes skin and respiratory tract.

Immediate Medical Attention and Special Treatment

Target Organs

If fired different decomposition product could have effects on: digestive system, respiratory system, nervous system.

Special Instructions

Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Explosive product: do not fight the fire.

If fire has not reached explosives:

Use flooding quantities of water or other suitable extinguishing agent. Carbon dioxide, dry chemical powder or appropriate foam.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

Can ignite if strongly heated.

Can be ignited by static discharge.

Ignites readily. When ignited burns vigorously and persistently.

Heating may cause a fire or explosion.

Explosive; fire, blast or projection hazard.

In a fire, the following hazardous materials may be generated: very toxic carbon monoxide, carbon dioxide; nitrogen oxides; corrosive sulfur oxides.

Special Protective Equipment and Precautions for Fire-fighters

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Do not fight fire when fire reaches explosives. Risk of explosion.

Evacuate area.

Fight fire from a safe distance or a protected location.

Review Section 6 (Accidental Release Measures) for important information on responding to leaks/spills.

Cargo Fires: Packages bearing the 1.4 label or packages containing material classified as 1.4 are designed or packaged in such manner that when involved in a fire, may burn vigorously with localized detonations and projection of fragments.

Effects are usually confined to immediate vicinity of packages.

If fire threatens cargo area containing packages bearing the 1.4 label or packages containing material classified as 1.4, consider isolating at least 15 meters (50 feet) in all directions. Fight fire with normal precautions from a reasonable distance.

Tire or vehicle fires: Use plenty of water - FLOOD it! If water is not available, use CO2, dry chemical or dirt. Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel.

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Eliminate all ignition sources. Use grounded, explosion-proof equipment.

Environmental Precautions

If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Do not allow into any sewer, on the ground or into any waterway.

It is good practice to prevent releases into the environment.

Methods and Materials for Containment and Cleaning Up

Handle spilled products carefully. Do not subject product to mechanical shock. Remove all sources of ignition. Ventilate the area.

For solid, intact cartridges: pick up and arrange disposal.

Other Information

Contact supplier, local fire and emergency services for help.

Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs.

Electrically bond and ground equipment. Ground clips must contact bare metal.

Avoid shock, friction or impact. Do not skid, drag or drop containers.

Only use where there is adequate ventilation.

Wear personal protective equipment to avoid direct contact with this chemical.

Disassembly/assembly operations shall be conducted only by experienced personnel qualified to perform the task.

Follow appropriate explosive safety requirements. Local ordinances may apply.

Conditions for Safe Storage

Store in an area that is: cool, temperature-controlled, well-ventilated, out of direct sunlight and away from heat and ignition sources. No smoking in the area.

Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Store in the original, labelled, shipping container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

	ACGIH® TLV®		OSHA PEL	
Chemical Name	TWA	STEL [C]	TWA	STEL

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1 mg/m3	Not established	0.1 mg/m3	Not established
Not established	Not established	Not established	Not established
Not established	Not established	Not established	Not established
Not established	Not established	Not established	Not established
Not established	Not established	Not established	Not established
Not established	Not established	5 mg/m3	Not established
Not established	Not established	Not established	Not established
Not established	Not established	Not established	Not established
0.05 ppm Skin	Not established	0.1 mg/m3 Skin	Not established
Not established	Not established	Not established	Not established
10 mg/m3	Not established	10 mg/m3	Not established
2 mg/m3	Not established	2.5 mg/m3	Not established
5 mg/m3	Not established	5 mg/m3	Not established
Not established	Not established	Not established	Not established
Not established	Not established	Not established	Not established
Not established	Not established	Not established	Not established
Not established	Not established	Not established	Not established
Not established	Not established	15 mg/m3	Not established
1 mg/m3 A4	Not established	5 mg/m3	Not established
0.2 mg/m3 A3 Skin	Not established	Not established	Not established
Not established	Not established	Not established	Not established
400 ppm	Not established	400 ppm	Not established
Not established	Not established	2 mg/m3	Not established
Not established	Not established	Not established	Not established
Not established	Not established	Not established	Not established
Not established	Not established	Not established	Not established
	Not established 0.05 ppm Skin Not established 10 mg/m3 2 mg/m3 5 mg/m3 Not established 1 mg/m3 A4 0.2 mg/m3 A3 Skin Not established 400 ppm Not established Not established Not established Not established	Not established	Not established

Appropriate Engineering Controls

General ventilation is usually adequate.

Do not allow product to accumulate in the air in work or storage areas, or in confined spaces.

Individual Protection Measures

Eye/Face Protection

Safety glasses with side shields should be used with this product. If necessary, refer to U.S. OSHA 29 1310.133 or Canadian CSA Standard Z94.3-02.

Skin Protection

Not required, if used as directed.

Respiratory Protection

Not normally required if product is used as directed. Use a NIOSH approved dust respirator if dust levels exceed exposure limits.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Odour Odourless

Melting Point/Freezing Point Not applicable (melting); Not applicable (freezing)

Initial Boiling Point/RangeNot applicableFlash PointNot applicableEvaporation RateNot applicableFlammability (solid, gas)Not applicable

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Upper/Lower Flammability or Not applicable (upper); Not applicable (lower)

Explosive Limit

Vapour Density (air = 1) Not applicable

Solubility Insoluble in water

Auto-ignition Temperature >= 120 °C (248 °F) (Tetrazene)

Decomposition Temperature Not applicable

Other Information

Physical State Solid

Molecular Formula Not applicable

Critical Temperature >= 120 °C (248 °F) (Tetrazene)

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Heating may cause a fire or explosion. Explosive; fire, blast or projection hazard.

Sensitive to mechanical impact.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

May igniter if primer is struck.

Mechanical shock or impact. Friction.

Open flames, sparks, static discharge, heat and other ignition sources. Temperatures above 120.0 °C (248.0 °F)

Incompatible Materials

Oils, acids, alkalis, ammonium salts, ammonia and other corrosives materials.

Hazardous Decomposition Products

Very toxic carbon monoxide, carbon dioxide.

Corrosive, oxidizing nitrogen oxides.

Corrosive sulfur oxides.

Decomposes in the presence of heat. May produce metal oxides and fumes.

SECTION 11. TOXICOLOGICAL INFORMATION

The following hazards are not expected to be present unless the product is fired or otherwise discharged so that gases, fumes and/or projections are created.

Normal handling and shipping should not cause exposure to these hazards.

Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Copper	Not available	413 mg/kg (mouse)	375 mg/kg (rabbit)
Zinc metal	Not available	630 mg/kg	Not available
Diazodinitrophenol	Not available	Not available	Not available
Tetrazene	Not available	~ 1000-3000 mg/kg	Not available
Polypropylene	Not available	> 8000 mg/kg (rat)	Not available
Poly(oxymethylene)	> 22000 mg/m3 (rat)	> 11000 mg/kg (rat)	Not available

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Nitrocellulose	Not available	5000 mg/kg (rat)	Not available
Potassium nitrate	Not available	3015 mg/kg (rat)	Not available
Nitroglycerin	Not available	105 mg/kg (rat)	> 280 mg/kg (rabbit)
Ethyl centralite	Not available	2750 mg/kg (rat)	Not available
Diphenylamine	Not available	1120 mg/kg (rat)	> 5000 mg/kg (rabbit)
Graphite (natural)	> 64 mg/L (rat)	> 10000 mg/kg (rat)	Not available
Dibutyl phthalate	12500 mg/m3 (mouse) (4-hour exposure)	8000 mg/kg (rat)	4200 mg/kg (rabbit) 90 days
Polyester adipate	Not available	Not available	Not available
Rosin	110 mg/m3 (rat)	7600 mg/kg (rat)	Not available
N-Nitrosodiphenylamine	Not available	1825 mg/kg (rat)	> 7940 mg/kg (rabbit)
Potassium sulfate	Not available	6600 mg/kg (mouse)	Not available
Calcium carbonate	Not available	6450 mg/kg (rat)	Not available
Aluminum powder, uncoated	> 1000 mg/m3 (male rat) (4-hour exposure)	Not available	Not available
2,4-Dinitrotoluene	Not available	400 mg/kg (rat)	> 2500 mg/kg (rat)
Arkadite II	Not available	2930 mg/kg (rat)	> 280 mg/kg (rabbit)
Ethyl acetate	1500 ppm (mouse) (4-hour exposure)	4900 mg/kg (rabbit)	Not available
Tin dioxide	Not available	> 20000 mg/kg (rat)	Not available
Bismuth	Not available	5000 mg/kg	Not available
Bismuth oxide	Not available	4000 mg/kg (rat)	Not available
Pentaerythritol tetranitrate	Not available	1660 mg/kg (rat)	Not available

Skin Corrosion/Irritation

After munitions have been fired, dust, vapours and/or fumes may cause irritation.

Serious Eye Damage/Irritation

After munitions have been fired, dust, vapours and/or fumes may cause irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

After munitions have been fired, dust, vapours and/or fumes may be irritating to the respiratory system.

May cause depression of the central nervous system. (Nitroglycerin). (Ethyl acetate)

Symptoms may include coughing, shortness of breath, difficult breathing and tightness in the chest.

Symptoms may include headache, nausea, dizziness, drowsiness and confusion.

Skin Absorption

After munitions have been fired, dust can be absorbed through the pores if left on the skin.

Ingestion

After munitions have been fired, dust, vapours and/or fumes may be absorbed by the digestive system and be irritating

Can cause effects as described for inhalation.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

May cause effects similar to STOT (Specific Target Organ Toxicity) - Single Exposure, as described above.

Respiratory and/or Skin Sensitization

Not a respiratory sensitizer. Not a skin sensitizer.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP
Copper	Not Listed	Not designated	Not Listed

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Listed	Not designated Not designated Not designated	Not Listed Not Listed Not Listed
Listed	<u> </u>	
	Not designated	Not Listed
oup 3		INUL LISIEU
	Not designated	Not Listed
Listed	Not designated	Not Listed
Listed	Not designated	Not Listed
Listed	Not designated	Not Listed
Listed	Not designated	Not Listed
Listed	Not designated	Not Listed
: Listed	A4	Not Listed
Listed	Not designated	Not Listed
Listed	Not designated	Not Listed
Listed	Not designated	Not Listed
Listed	Not designated	Not Listed
oup 3	Not designated	Not Listed
Listed	Not designated	Not Listed
Listed	Not designated	Not Listed
Listed	A4	Not Listed
oup 2B	A3	Not Listed
Listed	Not designated	Not Listed
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Listed	Not designated	Not Listed
Listed	Not designated	Not Listed
Listed	Not designated	Not Listed
Listed	Not designated	Not Listed
:	Listed	Listed Not designated

IARC:

Group 2B – Possibly carcinogenic to humans.

Group 3 – Not classifiable as to its carcinogenicity to humans.

ACGIH®:

A3 – Confirmed animal carcinogen.

A4 – Not classifiable as a human carcinogen.

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists.

IARC = International Agency for Research on Cancer.

NTP = National Toxicology Program.

Reproductive Toxicity

Development of Offspring

May harm the unborn child. (Dibutyl phthalate)

Sexual Function and Fertility

Animal studies show effects on sexual function and/or fertility. (Diphenylamine). (Dibutyl phthalate)

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life, based on acute toxicity tests. (Copper). (Zinc metal). (Aluminum Powder). (Ethyl centralite). (Nitroglycerin). (Diphenylamine). (Dibutyl phthalate)

Acute Aquatic Toxicity

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Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Algae
Copper	0.0224 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour)	0.2 mg/L (Daphnia magna (water flea); 48-hour)	Not available
Zinc metal	0.450 mg/L (96-hour)	0.068 mg/L (Daphnia magna (water flea); 48-hour)	0.15 mg/L (72-hour)
Diazodinitrophenol	Not available	Not available	Not available
Tetrazene	Not available	Not available	Not available
Polypropylene	Not available	Not available	Not available
Poly(oxymethylene)	Not available	Not available	Not available
Nitrocellulose	Not available	Not available	730 mg/L (Selenastrum capricornutum (algae); 96-hour)
Potassium nitrate	39 mg/L (Daphnia magna (water flea); 96-hour; fresh water; static)	Not available	Not available
Nitroglycerin	1.28 mg/L (Lepomis macrochirus (bluegill); 96-hour; static)	Not available	Not available
Ethyl centralite	15.6 mg/L (96-hour; static)	14.3 mg/L (Daphnia magna (water flea); 48-hour; static)	37.8 mg/L (Desmodesmus subspicatus (algae); 72-hour; static)
Diphenylamine	3.79 mg/L (Pimephales promelas (fathead minnow); 96-hour)	0.27-0.36 mg/L (Daphnia magna (water flea); 48-hour)	0.048 mg/L (Desmodesmus subspicatus (algae); 72-hour)
Graphite (natural)	> 100 mg/L (96-hour)	> 100 mg/L (Daphnia magna (water flea); 48-hour)	> 100 mg/L (Pseudokirchneriella subcapitata (algae); 72-hour)
Dibutyl phthalate	44 mg/L (Lepomis macrochirus (bluegill); 96-hour; fresh water; static)	17 mg/L (Daphnia magna (water flea); fresh water; recirculation)	25-50 mg/L (Pseudokirchneriella subcapitata (algae); 96-hour; fresh water; static)
Polyester adipate	Not available	Not available	Not available
Rosin	60.3 mg/L (96-hour; static)	Not available	Not available
N-Nitrosodiphenylamine	5.8 mg/L (Lepomis macrochirus (bluegill); 96-hour)	7.8 mg/L (Daphnia magna (water flea); 48-hour)	Not available
Potassium sulfate	680 mg/L (Pimephales promelas (fathead minnow); 96-hour)	Not available	Not available
Calcium carbonate	> 56000 mg/L (96-hour; static)	Not available	Not available
Aluminum powder, uncoated	0.12 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour; static)	Not available	Not available
2,4-Dinitrotoluene	24.3 mg/L (Pimephales promelas (fathead minnow); 96-hour)	<= 38 mg/L (Daphnia magna (water flea); fresh water; recirculation)	14.3 mg/L (Pseudokirchneriella subcapitata (algae); 96-hour; fresh water; static)

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Arkadite II	Not available	Not available	Not available
Ethyl acetate	230 mg/L (Pimephales promelas (fathead minnow); 96-hour; fresh water; flow-through)		5600 mg/L (Desmodesmus subspicatus (algae); 48-hour; fresh water; static)
Tin dioxide	Not available	Not available	Not available
Bismuth	Not available	> 100 mg/L (Daphnia magna (water flea); 48-hour; static)	Not available
Bismuth oxide	Not available	Not available	Not available
Pentaerythritol tetranitrate	27000 mg/L (Pimephales promelas (fathead minnow); 96-hour; fresh water; static)	8500 mg/L (Daphnia magna (water flea); 48-hour; fresh water; static)	Not available

Bioaccumulative Potential

This product and its degradation products are not known to bioaccumulate.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

The recommended means for disposing of scrap material usually involves demilitarization of detonator assembly (i.e.: separating all explosive elements for individual destruction) it can also be done by open detonation but it is not the preferred way.

Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

Dispose of contents and container in accordance with local, regional, national and international regulations.

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	UN0014	Cartridges for weapons, blank	1.4S	П

Special Precautions Please note: Avoid shock and friction. Appropriate advice on safety must accompany the package.

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL or are not required to be listed.

CEPA - National Pollutant Release Inventory (NPRI)

Part 1A. (Copper). (Zinc metal). (Potassium nitrate). (Aluminum Powder). (Dibutyl phthalate). (Diphenylamine). (Nitroglycerin). (N-Nitrosodiphenylamine). (2,4-Dinitrotoluene)
Part 5. (Ethyl acetate)

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

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SECTION 16. OTHER INFORMATION

SDS Prepared By General Dynamics - Ordnance and Tactical Systems - Canada Inc

Phone No. (450) 581-3080

Date of Preparation juin 08, 2021

Date of Last Revision avril 01, 2012

Revision Indicators The following SDS content was changed on juin 08, 2021:

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS;

Ingredient Information.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION;

in accordance with changes in section 3

SECTION 11. TOXICOLOGICAL INFORMATION;

in accordance with changes in section 3 SECTION 12. ECOLOGICAL INFORMATION; in accordance with changes in section 3

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists

HSDB® = Hazardous Substances Data Bank

IARC = International Agency for Research on Cancer

NIOSH = National Institute for Occupational Safety and Health

NTP = National Toxicology Program

OSHA = US Occupational Safety and Health Administration

RTECS® = Registry of Toxic Effects of Chemical Substances

Inh = Inhalation

LC = Lethal Concentration

LD = Lethal Dose

EPA = Environmental Protection Agency

PEL = Permissible exposure limit

SDS = Safety Data Sheet / Material Safety Data Sheet

STEL = Short Term Exposure Limit

TDG = Canadian Transportation of Dangerous Goods Act & Regulations

TLV = Threshold Limit Values TWA = Time Weighted Average

WHMIS = Workplace Hazardous Materials Identification System

N/Ap = Not Applicable

References CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).

HSDB® database. US National Library of Medicine. Available from Canadian Centre for

Occupational Health and Safety (CCOHS).

NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS).

Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault

Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and

Safety (CCOHS).

ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological

Exposure Indices.

Chempendium, HSDB and RTECS database. Available from Canadian Centre for Occupational

Health and Safety (CCOHS).

Disclaimer This Safety Data Sheet was prepared by General Dynamics Ordnance and Tactical Systems -

Canada Inc. using internal information and CCOHS' Web Information Service. The information

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