

Printing date 30.05.2013

1 Identification	of the s	substance/mixture and of the company/undertaking
· 1.1 Product ide	ntifier	
[.] Trade name: <u>De</u>	efense Tec	chnology® 1687 and 1697 Series Fuze (M201A1)
	entified us	B7DT, 1697T, 1697TSC, M201A1 Sees of the substance or mixture and uses advised against tion available.
• Application of t	he substa	nce / the preparation Product Component
 Manufacturer/S Safariland, LLC 11386 Internatio Jacksonville, FL Customer Care 	upplier: nal Parkwa 32218 (800) 347-1	
1.4 Emergency	telephone	e number:
ChemTel Inc. (800)255-3924, ·	+1 (813)24	8-0585
2 Hazards ider	tificatio	n
· Classification a		ubstance or mixture to Regulation (EC) No 1272/2008 pomb
Expl. 1.4	H204	
GHS08 I	nealth haza	ard
Carc. 1B	H350	May cause cancer.
Repr. 1A	H360Df	May damage the unborn child. Suspected of damaging fertility.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
GHS09	environmer	nt
Aquatic Chronic	2 H411	Toxic to aquatic life with long lasting effects.
GHS07		
Acute Tox. 4	H302	Harmful if swallowed.
Acute Tox. 4	H332	Harmful if inhaled.
Flam. Sol. 2	H228	Flammable solid.
Ox. Sol. 3	H272	May intensify fire; oxidiser. (Contd. on page 2)

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	(Contd. of page 1)
• Classification according to	o Directive 67/548/EEC or Directive 1999/45/EC
R45-60-61-23-48/23/24/25:	May cause cancer. May impair fertility. May cause harm to the unborn child. Toxic by inhalation. Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
Xn; Harmful	
R22:	Harmful if swallowed.
🐞 F; Highly flammable	
R11:	Highly flammable.
₩ N; Dangerous for the en	ivironment
R50/53:	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
The product has to be labell preparations of the EU" in th	
electrical shock. Particles fr harm environment.	t burn rate) product. Keep away from heat. Do not subject to mechanical or om firing may be harmful if inhaled. Do not take internally. Components may
of Nitrogen, Carbon, and Sube formed during use.	nite if the actuator is released or if the unit is exposed to excess heat. Oxides ulfur may be formed. Small quantities of various metal fumes and oxides may
 Classification system: The classification is accorr literature data. 	ding to the latest editions of the EU-lists, and extended by company and
The classification is in acc	cordance with the latest editions of international substances lists, and is n from technical literature and by information provided by the company.
 • 2.2 Label elements • Labelling according to Reg The product is classified and 	gulation (EC) No 1272/2008 I labelled according to the CLP regulation.
Hazard pictograms	
GHS01 GHS07 GHS08 GHS	22
· Signal word Danger	
Hazard-determining comp	onents of labelling:
barium chromate	
lead chromate potassium perchlorate	
Hazard statements H204 Fire or projectio	n hazard
H204 Fire or projectio	(Contd. on page 3)

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Trade name: Defense Technology® 1687 and 1697 Series Fuze (M201A1) (Contd. of page 2) H228 Flammable solid. May intensify fire; oxidiser. H272 H302+H332 Harmful if swallowed or if inhaled. May cause cancer. H350 May damage the unborn child. Suspected of damaging fertility. H360Df H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. **Precautionary statements** Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P210 P281 Use personal protective equipment as required. P202 Do not handle until all safety precautions have been read and understood. DO NOT fight fire when fire reaches explosives. P373 P308+P313 IF exposed or concerned: Get medical advice/attention. P314 Get medical advice/attention if you feel unwell. P370+P378 In case of fire: Use for extinction: CO2, powder or water spray. P401 Store in accordance with local/regional/national/international regulations. P405 Store locked up. Additional information: Warning! Contains lead. Can become highly flammable in use. Safety data sheet available on request. To avoid risks to human health and the environment, comply with the instructions for use. Restricted to professional users. Keep out of the reach of children Hazard description: · WHMIS-symbols: B6 - Reactive flammable material C - Oxidizing materials D1A - Very toxic material causing immediate and serious toxic effects D2A - Very toxic material causing other toxic effects NFPA ratings (scale 0 - 4) Health = 3 Fire = 2Reactivity = 2 This substance possesses oxidizing properties. · HMIS-ratings (scale 0 - 4) HEALTH *3 Health = *3 ² Fire = 2 FIRE REACTIVITY 2 Reactivity = 2 * - Indicates a long term health hazard from repeated or prolonged exposures. (Contd. on page 4)

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• HMIS Long Term Health Hazard Substances

7758-97-6 lead chromate

2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

Explosive Product Notice

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

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

3 Composition/information on ingredients

· 3.2 Mixtures

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

· Dangerous components:

Ranges reflect weight of individual component when compared to toal weight of chemical substances in product, but does not include components not involved in chemical reactions, such as casings, fasteners, and other similar items.

CAS: 10294-40-3 EINECS: 233-660-5 Index number: 056-002-00-7	30-60%
CAS: 7439-96-5 manganese EINECS: 231-105-1 Xn R48	15-35%
CAS: 7758-97-6 EINECS: 231-846-0 Index number: 082-004-00-2 N R50/53 R33 Carc. 1B, H350; Repr. 1A, H360Df; STOT RE 2, H373 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	5-25%
CAS: 7440-32-6 EINECS: 231-142-3	5-25% on page 5)

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		(Contd. of page 4)
CAS: 7778-74-7	potassium perchlorate	< 10%
EINECS: 231-912-9	🗙 Xn R22; 🔥 O R9	
Index number: 017-008-00-	5 (Ox. Sol. 1, H271 Acute Tox. 4, H302	
CAS: 1309-37-1	diiron trioxide / iron (III) oxide	< 5,0%
EINECS: 215-168-2		
CAS: 7440-67-7	zirconium powder (pyrophoric)	< 5,0%
EINECS: 231-176-9	👸 F R15-17	
Index number: 040-001-00-	3 🐼 Pyr. Sol. 1, H250; Water-react. 1, H260	
CAS: 9004-70-0	Nitrocellulose, colloided, granular	< 3,0%
EC number: 603-037-0	🗱 E R1-3	
	🐼 Unst. Expl., H200	
CAS: 9003-20-7	Poly(vinyl acetate)	< 1,0%
· SVHC		
7758-97-6 lead chromate		

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

4 First aid measures

· 4.1 Description of first aid measures

• General information:

Do not leave affected persons unattended.

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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

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

• After inhalation:

Take affected persons into fresh air and keep quiet.

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

• After skin contact: Immediately wash with water and soap and rinse thoroughly.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

A person vomiting while laying on their back should be turned onto their side.

Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Hazards Danger of impaired breathing.

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• **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Firefighting measures

· 5.1 Extinguishing media

• Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.

- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture
- Product may explode if burned in confined space. Individual cartridges may explode. Mass explosion of many cartridges at once is unlikely.

During heating or in case of fire poisonous gases are produced.

5.3 Advice for firefighters

• Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

Wear fully protective suit.

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

6 Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Remove persons from danger area.

Ensure adequate ventilation

Protect from heat.

Keep away from ignition sources.

Wear protective equipment. Keep unprotected persons away.

• 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Dispose of the material collected according to regulations.

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.

7 Handling and storage

• 7.1 Precautions for safe handling

Use only in well ventilated areas.

Take note of emission threshold.

Handle with care. Avoid jolting, friction and impact.

 $^{\rm \cdot}$ Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect from heat.

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Protect against electrostatic charges. Keep respiratory protective device available. 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: Store in a cool location.

Information about storage in one common storage facility:

Store away from flammable substances.

Do not store together with oxidizing and acidic materials.

Store away from foodstuffs.

• Further information about storage conditions:

Protect from heat and direct sunlight.

Protect from humidity and water.

Store under lock and key and with access restricted to technical experts or their assistants only.

Store in a cool place.

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

8 Exposure controls/personal protection

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

· 8.1 Control p	arameters
· Ingredients v	vith limit values that require monitoring at the workplace:
10294-40-3 b	arium chromate
PEL (USA)	Short-term value: C 0,1* mg/m ³ *as CrO3
REL (USA)	0,001 mg/m³ as Cr(VI), 10-hr TWA
TLV (USA)	0,05 mg/m³ as Cr
EL (Canada)	Short-term value: C0,1 mg/m³ Long-term value: 0,025 mg/m³ as Cr; ACIGH A1, IARC 1
7758-97-6 lea	nd chromate
IOELV (EU)	2 mg/m³ as Cr
REL (USA)	0,001 mg/m³ as Cr(VI), 10-hr TWA
TLV (USA)	0,05* 0,012** mg/m³ *as Pb; BEI ; **as Cr
EL (Canada)	0,05* 0,012** mg/m³ ACIGH A2, IARC 2A; R; *as Pb;**as Cr
EV (Canada)	0,012 mg/m³ as Cr
-	(Contd. on page 8)

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TLV (USA) (0,2) NIC-0,02* N as Mn;+ inorg. co EL (Canada) 0,2 mg/m³ as Mn; R EV (Canada) 0,2 mg/m³ as manganese • Additional information: The list 8.2 Exposure controls • Personal protective equipmer O dotted to the second	(Contd. of page 7
as Mn *and inorgate REL (USA) Short-term value: Long-term value: as Mn *and inorgate TLV (USA) (0,2) NIC-0,02* Nas Mn;+ inorg. co EL (Canada) 0,2 mg/m³ate EV (Canada) 0,2 mg/m³ate • Additional information: The list • Additional protective equipmer • General protective equipmer • General protective equipmer • Do not eat, drink, smoke or snift Keep away from foodstuffs, bev Immediately remove all soiled a Wash hands before breaks and Store protective clothing separa Do not inhale dust / smoke / mis • Respiratory protection: Use stop • Protection of hands: Strong material gloves For the permanent contact in recommendation for a suitable of • Material of gloves Strong material • Safety glasses Face protection: • Safety glasses	
REL (USA) Short-term value: Long-term value: as Mn *and inorgation (0,2) NIC-0,02* Nas Mn;+ inorg. co EL (Canada) EL (Canada) (0,2) mg/m ³ as Mn; R EV (Canada) 0,2 mg/m ³ as manganese Additional information: The list 8.2 Exposure controls Personal protective equipmer General protective and hygier Do not eat, drink, smoke or sniff Keep away from foodstuffs, bev Immediately remove all soiled a Wash hands before breaks and Store protective clothing separa Do not inhale dust / smoke / mis Respiratory protection: Use stop Protection of hands: Strong material gloves For the permanent contact in recommendation for a suitable ge Material of gloves Strong material strong material gloves For the permanent contact in recommendation for a suitable ge Material of gloves Strong material strong material gloves Face protection: Safety glasses Face protection Body protection: Protective work	
Long-term value: as Mn *and inorgaTLV (USA)(0,2) NIC-0,02* N as Mn;+ inorg. coEL (Canada)0,2 mg/m³ as Mn; REV (Canada)0,2 mg/m³ as manganeseAdditional information: The list8.2 Exposure controlsPersonal protective equipmerGeneral protective equipmerDo not eat, drink, smoke or sniff Keep away from foodstuffs, bev Immediately remove all soiled a Wash hands before breaks and Store protective clothing separa Do not inhale dust / smoke / misRespiratory protection: Use su Strong material gloves For the permanent contact in recommendation for a suitable of Material of gloves Strong material Safety glassesFace protection:Safety glassesFace protection:ProtectionBody protection: Protective work	•
as Mn *and inorgaTLV (USA)(0,2) NIC-0,02* N as Mn;+ inorg. coEL (Canada)EV (Canada)0,2 mg/m³ as Mn; REV (Canada)0,2 mg/m³ as manganese• Additional information: The list8.2 Exposure controls• Personal protective equipmer• General protective and hygier Do not eat, drink, smoke or sniff Keep away from foodstuffs, bev Immediately remove all soiled a Wash hands before breaks and Store protective clothing separa Do not inhale dust / smoke / mis• Respiratory protection: Use su Strong material gloves For the permanent contact in recommendation for a suitable g• Material of gloves Strong material Safety glasses• Face protection:• Body protection: Protective work	
TLV (USA) (0,2) NIC-0,02* N as Mn;+ inorg. co EL (Canada) 0,2 mg/m³ as Mn; R EV (Canada) 0,2 mg/m³ as manganese • Additional information: The list 8.2 Exposure controls • Personal protective equipmer 0 not eat, drink, smoke or sniff Ceep away from foodstuffs, bev Immediately remove all soiled a Wash hands before breaks and Store protective clothing separa Do not inhale dust / smoke / mis Respiratory protection: Use set Protection of hands: Strong material gloves For the permanent contact in recommendation for a suitable ge • Material of gloves Strong material strong material gloves Face protection: • Eye protection: • Eye protection: • Body protection:	inic compounds **fume
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EV (Canada) 0,2 mg/m³ as manganese • Additional information: The list • Additional information: The list • 8.2 Exposure controls • Personal protective equipmer • General protective and hygier Do not eat, drink, smoke or snift Keep away from foodstuffs, bev Immediately remove all soiled a Wash hands before breaks and Store protective clothing separa Do not inhale dust / smoke / mist Respiratory protection: Use su Protection of hands: Strong material gloves For the permanent contact in recommendation for a suitable g Material of gloves Strong material Eye protection: Safety glasses Face protection: Body protection: Protective wo	
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Face protection Body protection: Protective wo	ic measures: while working. erages and feed. nd contaminated clothing at the end of work. rely. t. iitable respiratory protective device when high concentrations are present work areas with heightened risk of injury (mechanical hazard) n love material can be given.
Body protection: Protective wo	
9 Physical and chemical p	rk clothing
9 Physical and chemical p	
	operties
 9.1 Information on basic phys General Information Appearance: 	cal and chemical properties

Form:

Colour:

Odour:

Solid material According to product specification Odourless

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		(Contd. of page
· Odour threshold:	Not determined.	
· pH-value:	Not applicable.	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. Undetermined.	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Highly flammable.	
· Ignition temperature:	Not determined.	
· Decomposition temperature:	Not determined.	
· Self-igniting:	Product is not self-igniting.	
· Danger of explosion:	Not determined.	
 Explosion limits: Lower: Upper: 	Not determined. Not determined.	
· Vapour pressure:	Not applicable.	
 Density: Relative density Vapour density Evaporation rate 	4,67 g/cm ³ Not determined. Not applicable. Not applicable.	
 Solubility in / Miscibility with water: 	Insoluble.	
· Partition coefficient (n-octanol/wat	er): Not determined.	
 Viscosity: Dynamic: Kinematic: 9.2 Other information 	Not applicable. Not applicable. No further relevant information available.	

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.	
Explosive thermal decomposition.	
 10.3 Possibility of hazardous reactions 	
Contact with acids releases flammable gases.	
Contact with acids releases toxic gases.	
Acts as an oxidizing agent on organic materials such as wood, paper and fats.	
Exothermic reaction.	
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• **10.4 Conditions to avoid** Keep ignition sources away - Do not smoke. Store away from oxidizing agents.

• 10.5 Incompatible materials: Contact with acids liberates toxic gases.

• 10.6 Hazardous decomposition products:

Possible in traces.

Toxic metal oxide smoke Bariumoxide vapour Leadoxide vapour Irritant gases/vapours Poisonous gases/vapours

11 Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity:

· LD/LC50 values relevant for classification:

7758-97-6 lead chromate

Oral LD50 12000 mg/kg (mouse)

7439-96-5 manganese

Oral LD50 9000 mg/kg (rat)

Primary irritant effect:

• on the skin: No irritant effect.

· on the eye: No irritating effect.

• Sensitization: No sensitizing effects known.

• Additional toxicological information:

Toxicological classifications are based on product ingredients without regard to overall form of product. In actual usage, hazards may be mitigated by solid non-inhalable form and subsequent placement of materials into protective canister. This does not remove the requirements for proper protective equipment as indicated in Section 8.

Product is suspected to cause birth defects.

Product is suspected to cause damage to fertility.

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:

Toxic

Harmful

Carcinogenic.

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 solid material which contains the various components within a metal shell. 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.

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12 Ecological information · 12.1 Toxicity · Aquatic toxicity: The product contains materials that are harmful to the environment. No data is available on this product, but leachates of metal components may be harmful or toxic to aquatic life and waterfowl. Collection and careful disposal of spent cartridges is highly advisable. Lead and chromium are especially problematic when introduced into many ecosystems. 12.2 Persistence and degradability The product is partially biodegradable. Significant residuals remain. • 12.3 Bioaccumulative potential May be accumulated in organism · 12.4 Mobility in soil No further relevant information available. · Ecotoxical effects: · Remark: Very toxic for fish · Additional ecological information: · General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms 12.5 Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. 12.6 Other adverse effects No further relevant information available. 13 Disposal considerations 13.1 Waste treatment methods Recommendation Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. Damaged materials pose a danger to anyone in the immediate area: consult experts for disposal of damaged products.

· Uncleaned packaging:

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

14 Transport information		
· 14.1 UN-Number · DOT, ADR, IMDG, IATA	UN0368	
· 14.2 UN proper shipping name · DOT	Fuzes, Igniting, 1.4S	
ADR	0368, Fuzes, Igniting	
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· IMDG, IATA	Fuzes, Igniting 1.4S	
· 14.3 Transport hazard class(es)		
· DOT, IMDG, IATA		
1.4		
· Class	1.4	
· Label	1.4S	
· ADR		
1.4		
· Class	1.4	
· Label	1.4S	
14.4 Packing group		
	N/A	
· ADR	N/A	
· 14.5 Environmental hazards:	Nie	
 Marine pollutant: Special marking (ADR): 	No Symbol (fish and tree)	
 14.6 Special precautions for user Danger code (Kemler): 	Not applicable.	
• EMS Number:	F-A,S-Q	
· 14.7 Transport in bulk according to Anne	ex II of	
MARPOL73/78 and the IBC Code	Not applicable.	
· Transport/Additional information:		
· ADR		
· Transport category	4	
 Tunnel restriction code 	E	
· UN "Model Regulation":	UN0368, FUZES, IGNITING, 1.4S,	

15 Regulatory information

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

· SARA

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

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7439-96-5 maganese TSCA (Toxic Substances Control Act): 10294-40-3 barium chromate 7758-97-6 lead chromate 7439-96-5 maganese Proposition 65 (California): Chemicals known to cause cancer: 10294-40-3 barium chromate 7758-97-6 lead chromate Chemicals known to cause developmental toxicity: 10294-40-3 10294-40-3 barium chromate 7758-97-6 lead chromate Chemicals known to cause developmental toxicity: 10294-40-3 10294-40-3 barium chromate 7758-97-6 lead chromate Carcinogenic Categories EPA (Environmental Protection Agency) 7758-97-6 lead chromate 7439-96-5 manganese IARC (International Agency for Research on Cancer) None of the ingredients is listed.	Or stige 240 (On a stig taxis showing) listings).	(Contd. of page
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· Canadian Ingredient Disclosure list (limit 0.1%)

10294-40-3 barium chromate

7758-97-6 lead chromate

· Canadian Ingredient Disclosure list (limit 1%)

7439-96-5 manganese

· National regulations:

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· Other regulations, limitations and prohibitive regulations

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

7758-97-6 lead chromate

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

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.
- H250 Catches fire spontaneously if exposed to air.
- H251 Self-heating: may catch fire.
- H260 In contact with water releases flammable gases which may ignite spontaneously.
- H271 May cause fire or explosion; strong oxidiser.
- H302 Harmful if swallowed.
- H332 Harmful if inhaled.
- H350 May cause cancer.
- H360Df May damage the unborn child. Suspected of damaging fertility.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- R1 Explosive when dry.
- R15 Contact with water liberates extremely flammable gases.
- R17 Spontaneously flammable in air.
- R20/22 Harmful by inhalation and if swallowed.
- R22 Harmful if swallowed.
- R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.
- R33 Danger of cumulative effects.
- R45 May cause cancer.
- R48 Danger of serious damage to health by prolonged exposure.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R61 May cause harm to the unborn child.
- R62 Possible risk of impaired fertility.
- R9 Explosive when mixed with combustible material.

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(Contd. of page 14) · Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals ACGIH: American Conference of Governmental Industrial Hygienists NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Sources SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com