

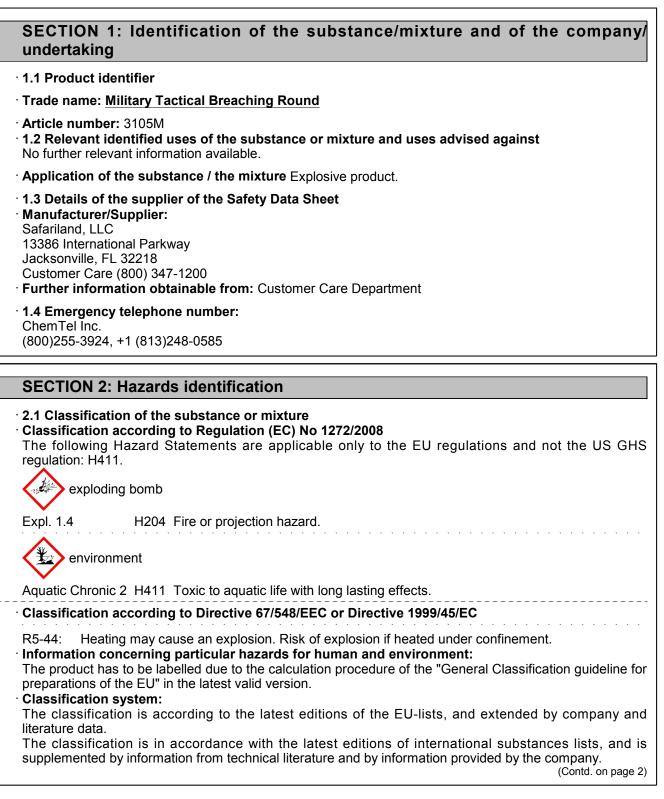
Safety Data Sheet

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

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(Contd. of page 1) · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. · Hazard pictograms This pictogram only applicable for EU regulations. Not for use in the United States (OSHA GHS). GHS01 GHS09 · Signal word Warning · Hazard statements The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411. H204 Fire or projection hazard. H411 Toxic to aquatic life with long lasting effects. Precautionary statements The following Precautionary Statements are applicable only to the general GHS regulations and not the specific CLP regulation: P374. P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P250 Do not subject to grinding/shock/friction. P373 DO NOT fight fire when fire reaches explosives. P374 Fight fire with normal precautions from a reasonable distance. P372 Explosion risk in case of fire. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · Additional information: Contains Rosin. May produce an allergic reaction. Can become highly flammable in use. · Hazard description: · WHMIS-symbols: F - Dangerously reactive material · NFPA ratings (scale 0 - 4) Health = 0Fire = 0Reactivity = 3 (Contd. on page 3)

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(Contd. of page 2) · HMIS-ratings (scale 0 - 4) HEALTH I Health = 0 FIRE • Fire = 0 **REACTIVITY** 3 Reactivity = 3 Warning: Contains lead salt(s). Long-term health hazard. · HMIS Long Term Health Hazard Substances 122-39-4 diphenylamine 15245-44-0 lead 2,4,6-trinitro-m-phenylene dioxide · 2.3 Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. Explosive Product Notice PREVENTION OF ACCIDENTS IN THE USE OF EXPLOSIVES - The prevention of accidents in the use of explosives is a result of careful planning and observance of the best known practices. The explosives user must remember that he is dealing with a powerful force and that various devices and methods have been developed to assist him in directing this force. He should realize that this force, if misdirected, may either kill or injure both him and his fellow workers. WARNING - All explosives are dangerous and must be carefully handled and used following approved safety procedures either by or under the direction of competent, experienced persons in accordance with all applicable federal, state, and local laws, regulations, or ordinances. If you have any questions or doubts as to how to use any explosive product, DO NOT USE IT before consulting with your supervisor, or the manufacturer, if you do not have a supervisor. If your supervisor has any questions or doubts, he should consult the manufacturer before use. **SECTION 3: Composition/information on ingredients** · 3.2 Mixtures · Description: Mixture of substances listed below with nonhazardous additions. · Dangerous components: CAS: 9004-70-0 Nitrocellulose, colloided, granular 25-75%

			2010/01
	EC number: 603-037-0	E R3	
		🖗 Expl. 1.1, H201	
	CAS: 55-63-0	glycerol trinitrate	25-50%
	EINECS: 200-240-8	🙀 T+ R26/27/28; 🎇 E R3; 🎇 N R51/53	
	Index number: 603-034-00-X		
		<ul> <li>Unst. Expl., H200</li> <li>Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330</li> <li>STOT RE 2, H373</li> <li>Aquatic Chronic 2, H411</li> <li>Flam. Liq. 2, H225</li> </ul>	
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CAS: 7439-89-6 EINECS: 231-096-4	iron substance with a Community workplace exposure limit	1-5%
CAS: 8050-09-7 EINECS: 232-475-7 Index number: 650-015-00-7	Rosin	1-5%
CAS: 7440-50-8 EINECS: 231-159-6	copper substance with a Community workplace exposure limit	< 1,0%
CAS: 7440-66-6	zinc metal N R50/53 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	< 1,0%
CAS: 122-39-4 EINECS: 204-539-4 Index number: 612-026-00-5	diphenylamine T R23/24/25; BN R50/53 R33 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT RE 2, H373 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	< 1,0%
CAS: 85-98-3 EINECS: 201-645-2	1,3-diethyldiphenylurea Xn R22 ♦ Acute Tox. 4, H302 Aquatic Chronic 3, H412	< 1,0%
CAS: 15245-44-0 EINECS: 239-290-0 Index number: 609-019-00-4	<ul> <li>lead 2,4,6-trinitro-m-phenylene dioxide</li> <li>T Repr. Cat. 1, 3 R61; Xn R62-20/22; E R3; R33</li> <li>✓ Unst. Expl., H200</li> <li>✓ Repr. 1A, H360Df; STOT RE 2, H373</li> <li>✓ Aquatic Acute 1, H400; Aquatic Chronic 1, H410</li> <li>✓ Acute Tox. 4, H302; Acute Tox. 4, H332</li> </ul>	< 1,0%

### **SECTION 4: First aid measures**

· 4.1 Description of first aid measures

· General information: No special measures required.

• After inhalation: Supply fresh air; consult doctor in case of complaints.

#### · After skin contact:

Unlikely route of exposure.

Brush off loose particles from skin.

If skin irritation is experienced, consult a doctor.

#### • After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing: Do not induce vomiting; call for medical help immediately.

· 4.2 Most important symptoms and effects, both acute and delayed Blast injury if mishandled.

· Hazards Danger of blast or crush-type injuries.

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# • 4.3 Indication of any immediate medical attention and special treatment needed (Contd. of page 4)

Product may produce physical injury if mishandled. Treatment of these injuries should be based on the blast and compression effects.

### **SECTION 5: Firefighting measures**

#### · 5.1 Extinguishing media

#### • Suitable extinguishing agents:

Flood area with water. If no water is available, carbon dioxide, dry chemical or earth may be used. If the fire reaches the cargo, withdraw and let fire burn.

• For safety reasons unsuitable extinguishing agents: None.

· 5.2 Special hazards arising from the substance or mixture

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

Product may explode if burned in confined space. Individual cartridges may explode. Mass explosion of many cartridges at once is unlikely.

#### 5.3 Advice for firefighters

#### · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

#### Additional information

Cool endangered receptacles with water spray.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Eliminate all ignition sources if safe to do so.

Flammability Classification: (defined by 29 CFR 1910.1200) Explosive. Can explode under fire conditions. Individual devices will randomly explode. Will not mass explode if multiple devices are involved. Burning material may produce toxic and irritating vapors. In unusual cases, shrapnel may be thrown from exploding devices under containment. See 2008 Emergency response Guidebook for further information.

## **SECTION 6: Accidental release measures**

#### · 6.1 Personal precautions, protective equipment and emergency procedures

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

Wear protective equipment. Keep unprotected persons away.

Remove persons from danger area.

Ensure adequate ventilation

Protect from heat.

Isolate area and prevent access.

· 6.2 Environmental precautions: No special measures required.

## • 6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Dispose contaminated material as waste according to item 13.

Send for recovery or disposal in suitable receptacles.

#### · 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

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

· Information about fire - and explosion protection:

Protect from heat.

Emergency cooling must be available in case of nearby fire.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

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

· Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from flammable substances.

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

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

### **SECTION 8: Exposure controls/personal protection**

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

· 8.1 Control parameters

<sup>·</sup> Ingredients with limit values that require monitoring at the workplace:				
55-63-0 glycerol trinitrate				
PEL (USA)	PEL (USA) Ceiling limit: 2 mg/m³, 0,2 ppm Skin			
REL (USA)	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			
7439-89-6 iro	7439-89-6 iron			
EV (Canada)	Long-term value: 1* 5** mg/m³ as iron;*salts, water-soluble;**welding fume			
8050-09-7 Rosin				
TLV (USA)	DSEN, RSEN, L			
EL (Canada)	S			
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7440-50-8 со				
PEL (USA)	PEL (USA) Long-term value: 1* 0,1** mg/m <sup>3</sup> as Cu *dusts and mists **fume			
REL (USA)	Long-term value: 1* 0,1** mg/m <sup>3</sup> 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			
122-39-4 dipl	henylamine			
REL (USA)	Long-term value: 10 mg/m <sup>3</sup>			
TLV (USA)	Long-term value: 10 mg/m <sup>3</sup>			
EL (Canada)	Long-term value: 10 mg/m <sup>3</sup>			
EV (Canada)	Long-term value: 10 mg/m <sup>3</sup>			
15245-44-0 le	ead 2,4,6-trinitro-m-phenylene dioxide			
EV (Canada)	Long-term value: 0,05 mg/m³ as Pb, Skin (organic compounds)			
• PNECs No fu • Additional in	<ul> <li>DNELs No further relevant information available.</li> <li>PNECs No further relevant information available.</li> <li>Additional information: The lists valid during the making were used as basis.</li> </ul>			
<ul> <li>8.2 Exposure controls</li> <li>Personal protective equipment:</li> <li>General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed.</li> </ul>				
	before breaks and at the end of work.			
	protection: Not required under normal conditions of use.			
<ul> <li>Protection of hands: Wear gloves for the protection against mechanical hazards according to NIOSH or EN 388. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.</li> <li>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.</li> </ul>				
			The exact bre	time of glove material eak through time has to be found out by the manufacturer of the protective gloves and has to
be observed. (Contd. on pa				

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· Relative density

· Vapour density

· Evaporation rate

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(Contd. of page 7) · 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: Odourless · Odour threshold: Not determined. · pH-value: Not applicable. · Change in condition Melting point/Melting range: Not Determined. Boiling point/Boiling range: Undetermined. · Flash point: Not applicable. · Flammability (solid, gaseous): Not determined. Auto/Self-ignition temperature: Not determined. · Decomposition temperature: Not determined. · Self-igniting: Product is not self-igniting. · Danger of explosion: Heating may cause an explosion. • Explosion limits: Lower: Not determined. Upper: Not determined. · Vapour pressure: Not applicable. · Density: Not determined.

Not determined.

Not applicable.

Not applicable.

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 Solubility in / Miscibility with water:

Insoluble.

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

 Viscosity: Dynamic: Kinematic:
 9.2 Other information

Not applicable. Not applicable. 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.

Reacts with strong acids and alkali.

Reacts violently with oxidizing agents.

• **10.4 Conditions to avoid** Sources of ignition, open flame, incompatible materials.

· 10.5 Incompatible materials: Oxidizers

10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides

Sulphur oxides (SOx)

## **SECTION 11: Toxicological information**

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

 · LD/LC50 values relevant for classification:

 55-63-0 glycerol trinitrate

 Oral
 LD50

 Dermal
 LD50

 29 mg/kg (rat)

 280 mg/kg (ratbil)

 122-39-4 diphenylamine

 Oral
 LD50

 1120 mg/kg (ratbil)

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

 Oral
 LD50

 650 mg/kg (ratbil)

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• Primary irritant effect:

· on the skin:

Not a skin irritant in unused form. Vapors/particles from used product are possibly irritating to skin. • on the eye:

Not an eye irritant in unused form. Vapors/particles from used product are possibly irritating to eyes. • 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.

## **SECTION 12: Ecological information**

#### · 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential May be accumulated in organism
- **12.4 Mobility in soil** No further relevant information available.
- 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.

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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		
<ul> <li>14.1 UN-Number</li> <li>DOT, ADR, IMDG, IATA</li> <li>14.2 UN proper shipping name</li> </ul>	UN0012	
· DOT, IMDG, IATA · ADR	CARTRIDGES FOR WEAPONS, INERT PROJECTILE 0012, CARTRIDGES FOR WEAPONS, INERT PROJECTILE	
· 14.3 Transport hazard class(es)		
· DOT, ADR, IMDG		
· Class	1.4	
·Label	1.4S	
·IATA		
1.4 s		
· Class	1.4	
Label	1.4S	
<ul> <li>14.4 Packing group</li> <li>DOT, ADR, IMDG, IATA</li> </ul>	11	
· 14.5 Environmental hazards:	11	
· Marine pollutant:	No	
•	Symbol (fish and tree)	
<sup>·</sup> Special marking (ADR):	Symbol (fish and tree)	
<ul> <li>14.6 Special precautions for user</li> </ul>	Not applicable.	
· EMS Number:	F-A,S-Q	
· Segregation groups	Heavy metals and their salts (including thei organometallic compounds)	
· 14.7 Transport in bulk according to Annex II of		
MARPOL73/78 and the IBC Code	Not applicable.	
· UN "Model Regulation":	UN0012, CARTRIDGES FOR WEAPONS, INERT PROJECTILE, 1.4S, II	

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## **SECTION 15: Regulatory information** 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture · United States (USA) · SARA Section 355 (extremely hazardous substances): None of the ingredients is listed. Section 313 (Specific toxic chemical listings): 55-63-0 glycerol trinitrate 7440-50-8 copper · TSCA (Toxic Substances Control Act): All ingredients are listed. · Proposition 65 (California): · Chemicals known to cause cancer: 15245-44-0 lead 2,4,6-trinitro-m-phenylene dioxide · Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed. · Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. · Chemicals known to cause developmental toxicity: 15245-44-0 lead 2,4,6-trinitro-m-phenylene dioxide · Carcinogenic Categories • EPA (Environmental Protection Agency) 7440-50-8 copper D 7440-66-6 zinc metal D, I, II · IARC (International Agency for Research on Cancer) None of the ingredients is listed. • TLV (Threshold Limit Value established by ACGIH) 122-39-4 diphenylamine A4 · NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. · 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%) 7440-50-8 copper (Contd. on page 13)

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#### · 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.
- H300 Fatal if swallowed.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H310 Fatal in contact with skin.
- H311 Toxic in contact with skin.
- H317 May cause an allergic skin reaction.
- H330 Fatal if inhaled.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H360Df May damage the unborn child. Suspected of damaging fertility.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- R20/22 Harmful by inhalation and if swallowed.
- R22 Harmful if swallowed.
- R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.
- R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.
- R33 Danger of cumulative effects.
- R43 May cause sensitisation by skin contact.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R61 May cause harm to the unborn child.
- R62 Possible risk of impaired fertility.

#### • 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

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(Contd. of page 13) IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Expl. 1.1: Explosives, Division 1.1 Expl. 1.4: Explosives, Division 1.4 Unst. Expl.: Explosives, Unstable explosives Flam. Liq. 2: Flammable liquids, Hazard Category 2 Acute Tox. 2: Acute toxicity, Hazard Category 2 Acute Tox. 3: Acute toxicity, Hazard Category 3 Acute Tox. 4: Acute toxicity, Hazard Category 4 Acute Tox. 1: Acute toxicity, Hazard Category 1 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Repr. 1A: Reproductive toxicity, Hazard Category 1A 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 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