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

1.1 Product identifier

- Trade name: Dynamite
  - Article Unique Manufacturer SDS Number: 1019
  - Other product identifiers:
    D-GEL™ 1000
    RED HB®
    DYNOSPLIT D®
    STONECUTTER™
    DYNOSPLIT D-1®
    UNIGEL®
    DYNOMAX PRO™
    UNIMAX®
    IP: 724
    VIBROGEL®: 1, 3
    Oil Well Explosive 80%
    Z POWDER™

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.
  Commercial blasting applications

1.3 Details of the supplier of the Safety Data Sheet

- Manufacturer/Supplier:
  Dyno Nobel Inc.
  2795 East Cottonwood Parkway, Suite 500
  Salt Lake City, Utah 84121
  Phone: 801-364-4800
  Fax: 801-321-6703
  E-Mail: dnna.hse@am.dynonobel.com

1.4 Emergency telephone number:

CHEMTREC
1-800-424-9300 (US/Canada)
+01 703-527-3887 (International)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008
  Classifications listed also are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).

爆炸炸弹

Expl. 1.1 H201 Explosive; mass explosion hazard.
Trade name: Dynamite

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
  
  E: Explosive

- **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.

- **Additional information:**

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

  0 percent of the mixture consists of component(s) of unknown toxicity

  Product is a sealed package as delivered. Exposure to contents is unlikely when stored and used according to manufacturer’s instructions. Adverse health effects are not expected from normal storage and use.

  See Section 4 for hazards involving old or improperly stored materials.

**2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

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

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

- **Hazard pictograms**

  GHS01

- **Signal word** Danger

- **Hazard statements**

  H201 Explosive; mass explosion hazard.

- **Precautionary statements**

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

  P230 Keep wetted.

  P250 Do not subject to grinding/shock/friction.

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

  P240 Ground/bond container and receiving equipment.

  P373 DO NOT fight fire when fire reaches explosives.

  P370+P380 In case of fire: Evacuate area.

  P372 Explosion risk in case of fire.

  P401 Store in accordance with local/regional/national/international regulations.

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

- **Additional information:**

  EUH209 Can become highly flammable in use.
Trade name: Dynamite

- Hazard description:
  - WHMIS-symbols: Explosive products are not classified under WHMIS.
  - NFPA ratings (scale 0 - 4) Not available.
  - HMIS-ratings (scale 0 - 4) Not available

None of the ingredients are listed.

- 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.

<table>
<thead>
<tr>
<th>CAS: 6484-52-2</th>
<th>EINECS: 229-347-8</th>
<th>ammonium nitrate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Xi R36; O R8</td>
</tr>
<tr>
<td></td>
<td>Ox. Sol. 3, H272</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Eye Irrit. 2, H319</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 628-96-6</th>
<th>EINECS: 211-063-0</th>
<th>ethylene dinitrate / nitroglycol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Index number: 603-032-00-9</td>
<td>R33</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Unst. Expl., H200</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STOT RE 2, H373</td>
<td></td>
</tr>
</tbody>
</table>

(Contd. on page 4)
SECTION 4: First aid measures

- **4.1 Description of first aid measures**

  **General information:**
  This is a packaged product that will not result in exposure to the contents under normal conditions of use. In the event of exposure, administer first aid appropriate for symptoms present.

  **After inhalation:**
  Unlikely route of exposure.
  Supply fresh air; consult doctor in case of complaints.

  **After skin contact:**
  Generally the product does not irritate the skin.
  Wash with soap and water.
  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:**
  Unlikely route of exposure.
  Do not induce vomiting; call for medical help immediately.

- **4.2 Most important symptoms and effects, both acute and delayed**

  Blast injury if mishandled.
  Adverse health effects are not reasonably expected from normal use of product. Symptoms listed below may occur from handling of old or improperly stored materials.
  Headache
Trade name: Dynamite

Dizziness
Cramp
Dilation of pupils
Methaemoglobinemia
Profuse sweating
Vision disorders.
Disorientation

Hazard
Danger of blast or crush-type injuries.
Adverse health effects are not reasonably expected from normal use of product. Hazards listed below may occur from handling of old or improperly stored materials.
Danger of disturbed cardiac rhythm.
Danger of convulsion.
Toxic if swallowed, in contact with skin or if inhaled.
May cause damage to organs through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatment needed
Contains organic nitrates. Consult literature for specific antidotes.
May produce a vasodilatory effect.
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: DO NOT fight fire when fire reaches explosives.

5.2 Special hazards arising from the substance or mixture
DO NOT ATTEMPT TO FIGHT FIRES INVOLVING EXPLOSIVE MATERIALS. Evacuate all personnel to a predetermined safe location, no less than 2,500 feet in all directions. Can explode or detonate under fire conditions. Burning material may produce toxic vapors. It is recommended that users of explosives material be familiar with the Institute of Makers of Explosives Safety Library publications.

Explosive; mass explosion hazard.

5.3 Advice for firefighters
Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit.

Additional information
Eliminate all ignition sources if safe to do so.
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use respiratory protective device against the effects of fumes/dust/aerosol.
Remove persons from danger area.
Ensure adequate ventilation
Wear protective clothing.
Protect from heat.
Evacuate area.
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.
Send for recovery or disposal in suitable receptacles.
Dispose unusable material as waste according to item 13.

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
Open and handle receptacle with care.
Handle with care. Avoid jolting, friction and impact.
Use only in well ventilated areas.
Do not subject to grinding/shock/friction.

Information about fire - and explosion protection:
Protect from heat.
Prevent impact and friction.
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:
Protect from humidity and water.
Store in a cool location.
Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions:
Store under lock and key and with access restricted to technical experts or their assistants only.
Keep away from heat.

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:

<table>
<thead>
<tr>
<th>Chemical</th>
<th>PEL (USA)</th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>EV (Canada)</th>
</tr>
</thead>
<tbody>
<tr>
<td>628-96-6 ethylene dinitrate / nitroglycol</td>
<td>Ceiling limit: 1 mg/m³, 0,2 ppm Skin</td>
<td>Short-term value: 0,1 mg/m³ Skin</td>
<td>Long-term value: 0,31 mg/m³, 0,05 ppm Skin</td>
<td>Long-term value: 0,05 ppm Skin</td>
<td>Long-term value: 0,31 mg/m³, 0,05 ppm Skin</td>
</tr>
<tr>
<td>55-63-0 glycerol trinitrate / nitroglycerin</td>
<td>Ceiling limit: 2 mg/m³, 0,2 ppm Skin</td>
<td>Short-term value: 0,1 mg/m³ Skin</td>
<td>Long-term value: 0,46 mg/m³, 0,05 ppm Skin</td>
<td>Long-term value: 0,05 ppm Skin</td>
<td>Long-term value: 0,5 mg/m³, 0,05 ppm Skin</td>
</tr>
</tbody>
</table>

- DNELs No further relevant information available.
- PNECs No further relevant information available.
- Additional information: The lists valid during the making were used as basis.

- 8.2 Exposure controls

- Personal protective equipment:
  - General protective and hygienic measures:
    The usual precautionary measures are to be adhered to when handling chemicals.
    Keep away from foodstuffs, beverages and feed.
    Wash hands before breaks and at the end of work.
  - Respiratory protection:
    Not required under normal conditions of use.
    Respiratory protection may be required after product use.
  - Protection of hands:
    Protective gloves

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

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Trade name: Dynamite

Wear gloves for the protection against mechanical hazards according to NIOSH or EN 388.

- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**
Safety glasses

Face protection
- **Body protection:** Impervious protective clothing
- **Limitation and supervision of exposure into the environment**
No further relevant information available.

- **Risk management measures**
Organizational measures should be in place for all activities involving this product.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

  - **General Information**
  - **Appearance:**
  - **Form:** Solid material
  - **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):** Explosive; mass explosion hazard.
  - **Auto/Self-ignition temperature:** Not determined.
  - **Decomposition temperature:** Not determined.
  - **Self-igniting:** Product is not self-igniting.
  - **Danger of explosion:** Risk of explosion by shock, friction, fire or other sources of ignition.
  - **Explosion limits:**
  - **Lower:** Not determined.

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

Printing date 01.11.2018
Revision: 01.11.2018

Trade name: Dynamite

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Solubility in / Miscibility with water</td>
<td>Variable, dependent upon product composition and packaging.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>Dynamic</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Kinematic</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>9.2 Other information</td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
  - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- 10.3 Possibility of hazardous reactions
  - Danger of explosion.
  - Contact with acids releases toxic gases.
  - Toxic fumes may be released if heated above the decomposition point.
- 10.4 Conditions to avoid
  - No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:
  - Carbon monoxide and carbon dioxide
  - Nitrogen oxides
  - Hydrocarbons

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Route</th>
<th>LD50/LC50 values relevant for classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td>6484-52-2 ammonium nitrate</td>
<td>Oral</td>
<td>LD50 2217 mg/kg (rat)</td>
</tr>
<tr>
<td>55-63-0 glycerol trinitrate / nitroglycerin</td>
<td>Oral</td>
<td>LD50 115 mg/kg (mouse) 105 mg/kg (rat)</td>
</tr>
</tbody>
</table>

(Contd. on page 10)
Trade name: Dynamite

<table>
<thead>
<tr>
<th>Dermal</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>29 mg/kg (rat)</td>
</tr>
<tr>
<td></td>
<td>280 mg/kg (rabbit)</td>
</tr>
</tbody>
</table>

- **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.
  - **Sensitisation:** No sensitising effects known.
  - **Subacute to chronic toxicity:** No further relevant information available.
  - **Acute effects (acute toxicity, irritation and corrosivity):** Danger of blast or crush-type injuries. Adverse health effects are not reasonably expected from normal use of product. Hazards listed below may occur from handling of old or improperly stored materials. Toxic if swallowed, in contact with skin or if inhaled.
  - **Repeated dose toxicity:** No further relevant information available.

**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** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **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.
  - **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. Damaged materials pose a danger to anyone in the immediate area; consult experts for disposal of damaged products. 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.
Trade name: Dynamite

- **Uncleaned packaging:**
  - **Recommendation:** Disposal must be made according to official regulations.
  - **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

---

### SECTION 14: Transport information

- **14.1 UN-Number**
  - DOT, ADR, IMDG: UN0081
  - IATA: FORBIDDEN

- **14.2 UN proper shipping name**
  - DOT, IMDG: EXPLOSIVE, BLASTING, TYPE A
  - ADR: 0081 EXPLOSIVE, BLASTING, TYPE A
  - IATA: FORBIDDEN

- **14.3 Transport hazard class(es)**
  - DOT
    - **Class:** 1.1
    - **Label:** 1.1
  - ADR, IMDG
    - **Class:** 1.1
    - **Label:** 1.1D

- **14.4 Packing group**
  - DOT, ADR, IMDG: II
  - IATA: FORBIDDEN

- **14.5 Environmental hazards:**
  - Marine pollutant: No
  - Special marking (IATA): FORBIDDEN BY AIR.

- **14.6 Special precautions for user**
  - Not applicable.

- **EMS Number:** F-S,B-Y

- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
  - Ammonium compounds

- **Transport/Additional information:**
  - ADR
    - **Tunnel restriction code:** 1

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Safety Data Sheet
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OSHA GHS

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Revision: 01.11.2018

Trade name: Dynamite

- IMDG
  - Limited quantities (LQ) 0
  - Excepted quantities (EQ) Code: E0
    Not permitted as Excepted Quantity

- IATA
- UN "Model Regulation":
  FORBIDDEN.
  UN0081, EXPLOSIVE, BLASTING, TYPE A, 1.1D, II

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - United States (USA)
    - SARA
      - Section 355 (extremely hazardous substances):
        None of the ingredients are listed.
      - Section 313 (Specific toxic chemical listings):
        6484-52-2 ammonium nitrate
        55-63-0 glycerol trinitrate / nitroglycerin
      - TSCA (Toxic Substances Control Act):
        All ingredients are listed.
    - Proposition 65 (California):
      - Chemicals known to cause cancer:
        None of the ingredients is listed.
      - 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 are listed.
      - Chemicals known to cause developmental toxicity:
        None of the ingredients are listed.
  - Carcinogenic Categories
    - EPA (Environmental Protection Agency)
      None of the ingredients are listed.
    - IARC (International Agency for Research on Cancer)
      None of the ingredients are listed.
    - TLV (Threshold Limit Value established by ACGIH)
      None of the ingredients are listed.
    - NIOSH-Ca (National Institute for Occupational Safety and Health)
      None of the ingredients are listed.
Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
OSHA GHS

Trade name: Dynamite

- Canada
- Canadian Domestic Substances List (DSL)
  Some components are listed on the NDSL.

  All ingredients are listed.

- Canadian Ingredient Disclosure list (limit 0.1%)
  None of the ingredients are listed.

- Canadian Ingredient Disclosure list (limit 1%)
  628-96-6 ethylene dinitrate / nitroglycol
  7631-99-4 sodium nitrate

- 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

Disclaimer
Dyno Nobel Inc. and its subsidiaries disclaim any warranties with respect to this product, the safety or suitability thereof, the information contained herein, or the results to be obtained, whether express or implied, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND/OR OTHER WARRANTY. The information contained herein is provided for reference purposes only and is intended only for persons having relevant technical skills. Because conditions and manner of use are outside of our control, the user is responsible for determining the conditions of safe use of the product. Buyers and users assume all risk, responsibility and liability whatsoever from any and all injuries (including death), losses, or damages to persons or property arising from the use of this product or information. Under no circumstances shall either Dyno Nobel Inc. or any of its subsidiaries be liable for special, consequential or incidental damages or for anticipated loss of profits.

- Relevant phrases
  H200 Unstable explosives.
  H201 Explosive; mass explosion hazard.
  H225 Highly flammable liquid and vapour.
  H272 May intensify fire; oxidiser.
  H300 Fatal if swallowed.
  H310 Fatal in contact with skin.
  H315 Causes skin irritation.
  H319 Causes serious eye irritation.
  H330 Fatal if inhaled.
  H373 May cause damage to organs through prolonged or repeated exposure.
  H411 Toxic to aquatic life with long lasting effects.
  R22 Harmful if swallowed.

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

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Revision: 01.11.2018

Trade name: Dynamite

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.
R36 Irritating to eyes.
R38 Irritating to skin.
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
Exp. 1.1: Explosives, Division 1.1
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. 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
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

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