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

· 1.1 Product identifier
  · Trade name: Dynoplit C™.

  · Article number: 1084

· 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.dynobel.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 are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).
    · Hazard Statement H412 is not applicable to the OSHA US regulations.

  · Expl. 1.1 H201 Explosive; mass explosion hazard.

  · Skin Irrit. 2 H315 Causes skin irritation.
  · Skin Sens. 1 H317 May cause an allergic skin reaction.

· Additional information:
  · There are no other hazards not otherwise classified that have been identified.
Trade name: Detagel™ Presplit™

0 % of the mixture consists of component(s) of unknown toxicity.

---

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 GHS07

- Signal word Danger

- Hazard-determining components of labelling:
  methenamine

- Hazard statements
  The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.
  H201 Explosive; mass explosion hazard.
  H315 Causes skin irritation.
  H317 May cause an allergic skin reaction.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P230 Keep wetted.
P250 Do not subject to grinding/shock/friction.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P240 Ground/bond container and receiving equipment.
P272 Contaminated work clothing should not be allowed out of the workplace.
P373 DO NOT fight fire when fire reaches explosives.
P321 Specific treatment (see on this label).
P370+P380 In case of fire: Evacuate area.
P372 Explosion risk in case of fire.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P302+P352 IF ON SKIN: Wash with plenty of water.
P362+P364 Take off contaminated clothing and wash it before reuse.
P401 Store in accordance with local/regional/national/international regulations.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- NFPA ratings (scale 0 - 4) Not available.
- HMIS-ratings (scale 0 - 4) Not available

2.3 Other hazards

- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
**SECTION 3: Composition/information on ingredients**

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Dangerous components:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 6484-52-2</td>
<td>ammonium nitrate</td>
</tr>
<tr>
<td>EINECS: 229-347-8</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ox. Sól. 3, H272</td>
</tr>
<tr>
<td></td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>CAS: 7631-99-4</td>
<td>sodium nitrate</td>
</tr>
<tr>
<td>EINECS: 231-554-3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ox. Sól. 2, H272</td>
</tr>
<tr>
<td></td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>CAS: 100-97-0</td>
<td>methenamine</td>
</tr>
<tr>
<td>EINECS: 202-905-8</td>
<td>Flam. Liq. 1, H224; Flam. Sól. 2, H228</td>
</tr>
<tr>
<td>Index number: 612-101-00-2</td>
<td>Skin Sens. 1, H317</td>
</tr>
<tr>
<td>CAS: 7429-90-5</td>
<td>aluminium powder (pyrophoric)</td>
</tr>
<tr>
<td>EINECS: 231-072-3</td>
<td></td>
</tr>
<tr>
<td>Index number: 013-001-00-6</td>
<td>Pyr. Sól. 1, H250; Water-react. 2, H261</td>
</tr>
<tr>
<td>CAS: 7697-37-2</td>
<td>nitric acid</td>
</tr>
<tr>
<td>EINECS: 231-714-2</td>
<td>Ox. Liq. 3, H272</td>
</tr>
<tr>
<td>Index number: 007-004-00-1</td>
<td>Skin Corr. 1A, H314</td>
</tr>
<tr>
<td>CAS: 78-11-5</td>
<td>pentaerythritol tetrinitrate (PETN)</td>
</tr>
<tr>
<td>EINECS: 201-084-3</td>
<td>Únst. Expl., R200</td>
</tr>
<tr>
<td>Index number: 603-035-00-5</td>
<td></td>
</tr>
</tbody>
</table>

**Additional information:**
For the listed ingredient(s), the identity and exact percentages are being withheld as a trade secret.
For the wording of the listed Hazard Statements refer to section 16.
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. 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.
  - After inhalation:
    Unlikely route of exposure.
    Supply fresh air; consult doctor in case of complaints.
  - After skin contact:
    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:
    Rinse out mouth and then drink plenty of water.
    Do not induce vomiting; call for medical help immediately.

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

- 4.3 Indication of any immediate medical attention and special treatment needed
  Product may produce physical injury if mishandled. Treatment of these injuries should be based on the blast and compression effects.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
  - Suitable extinguishing agents: DO NOT fight fire when fire reaches explosives.
  - For safety reasons unsuitable extinguishing agents: None.

- 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. May mass explode in fire.

- 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.
    Flammability Classification: (defined by 29 CFR 1910.1200) Explosive. Can explode under fire conditions. Individual devices will randomly explode. Mass explosion of multiple devices is possible under certain conditions. Burning material may produce toxic and irritating vapors. In unusual cases, shrapnel may be thrown from exploding devices under containment. See 2012 Emergency response Guidebook for further...
SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
  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
  Handle with care. Avoid jolting, friction and impact.
  Use only in well ventilated areas.
  Do not subject to grinding/shock/friction.
  Keep from heat and sources of ignition.
- 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
- 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 section 7.
8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>100-97-0 methenamine</th>
<th>7429-90-5 aluminium powder (pyrophoric)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EV (Canada)</td>
<td>Short-term value: 2 mg/m³, 0,35 ppm</td>
</tr>
<tr>
<td>PEL (USA)</td>
<td>Long-term value: 15*, 15** mg/m³</td>
</tr>
<tr>
<td>REL (USA)</td>
<td>Long-term value: 10* 5** mg/m³</td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>Long-term value: 1* mg/m³</td>
</tr>
<tr>
<td>EL (Canada)</td>
<td>Long-term value: 1,0 mg/m³</td>
</tr>
<tr>
<td>EV (Canada)</td>
<td>Long-term value: 5 mg/m³ aluminium-containing (as aluminium)</td>
</tr>
</tbody>
</table>

7697-37-2 nitric acid

| IOELV (EU)            | Short-term value: 2,6 mg/m³, 1 ppm    |
| PEL (USA)             | Long-term value: 5 mg/m³, 2 ppm       |
| REL (USA)             | Short-term value: 10 mg/m³, 4 ppm     |
| TLV (USA)             | Short-term value: 10 mg/m³, 4 ppm     |
| EL (Canada)           | Short-term value: 4 ppm               |
| EV (Canada)           | Short-term value: 10 mg/m³, 4 ppm     |

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.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

- Respiratory protection:
Not required under normal conditions of use.
Respiratory protection may be required after product use.

- Protection of hands:
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.
Trade name: Detagel™ Presplit™

(Cont'd. from page 6)

- 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: Heating may cause an explosion.
- Explosion limits:
  - Lower: Not determined.
  - Upper: Not determined.
- Vapour pressure: Not applicable.
- Density: Not determined.
- Relative density: Not determined.

(Cont'd. on page 8)
SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
  - **Thermal decomposition / conditions to be avoided:**
    Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- **10.3 Possibility of hazardous reactions**
  May mass explode in fire.
  Toxic fumes may be released if heated above the decomposition point.
  Acts as an oxidising agent on organic materials such as wood, paper and fats.
- **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
  Hydrocarbons
  Nitrogen oxides

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
  - **LD/LC50 values relevant for classification:**
    - **6484-52-2 ammonium nitrate**
      - Oral LD50: 2217 mg/kg (rat)
    - **7631-99-4 sodium nitrate**
      - Oral LD50: 3236 mg/kg (rat)
- **Primary irritant effect:**
  - **Skin corrosion/irritation**
    Causes skin irritation.
  - **Serious eye damage/irritation**
    Based on available data, the classification criteria are not met.
  - **Respiratory or skin sensitisation**
    May cause an allergic skin reaction.
- **Subacute to chronic toxicity:** No further relevant information available.
Trade name: Detagel™ Presplit™

- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):
  - Germ cell mutagenicity
    Based on available data, the classification criteria are not met.
  - Carcinogenicity
    Based on available data, the classification criteria are not met.
  - Reproductive toxicity
    Based on available data, the classification criteria are not met.
  - STOT-single exposure
    Based on available data, the classification criteria are not met.
  - STOT-repeated exposure
    Based on available data, the classification criteria are not met.
  - Aspiration hazard
    Based on available data, the classification criteria are not met.

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

SECTION 14: Transport information

- 14.1 UN-Number
  - DOT, ADR, IMDG: UN0241
  - IATA: FORBIDDEN
- 14.2 UN proper shipping name
  - DOT: Explosive, Blasting, Type E
## 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: Detagel™ Presplit™

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
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</thead>
<tbody>
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<td>0241 EXPLOSIVE, BLASTING, TYPE E</td>
<td>EXPLOSIVE, BLASTING, TYPE E</td>
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### 14.3 Transport hazard class(es)

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<tr>
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### ADR

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</thead>
<tbody>
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<td>1.1D</td>
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</tbody>
</table>

### IATA

<table>
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<tr>
<th>Class</th>
<th>Packing group</th>
<th>DOT, ADR, IMDG</th>
<th>IATA</th>
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<tr>
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### 14.5 Environmental hazards:

<table>
<thead>
<tr>
<th>Marine pollutant</th>
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</thead>
<tbody>
<tr>
<td>No</td>
</tr>
</tbody>
</table>

### Special marking (IATA):

<table>
<thead>
<tr>
<th>Special precautions for user</th>
<th>Danger code (Kemler)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
<td>-</td>
</tr>
</tbody>
</table>

### EMS Number:

<table>
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<tr>
<th>F-B,S-X</th>
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</thead>
</table>

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

<table>
<thead>
<tr>
<th>Transport/Additional information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

### ADR

<table>
<thead>
<tr>
<th>Limited quantities (LQ)</th>
<th>Excepted quantities (EQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code: E0</td>
<td>Not permitted as Excepted Quantity</td>
</tr>
</tbody>
</table>

### IMDG

<table>
<thead>
<tr>
<th>Limited quantities (LQ)</th>
<th>Excepted quantities (EQ)</th>
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<tbody>
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<td>Not permitted as Excepted Quantity</td>
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</tbody>
</table>

### IATA

<table>
<thead>
<tr>
<th>UN &quot;Model Regulation&quot;:</th>
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</thead>
<tbody>
<tr>
<td>UN0241, EXPLOSIVE, BLASTING, TYPE E, 1.1D, II</td>
</tr>
</tbody>
</table>

(Cont'd. from page 9)

(Cont'd. on page 11)
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):
        - 7697-37-2 nitric acid
      - Section 313 (Specific toxic chemical listings):
        - 6484-52-2 ammonium nitrate
        - 7429-90-5 aluminium powder (pyrophoric)
        - 7697-37-2 nitric acid
      - 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)
          - 7429-90-5 aluminium powder (pyrophoric)  A4
        - NIOSH-Ca (National Institute for Occupational Safety and Health)
          - None of the ingredients are listed.
      - Canada
        - Canadian Domestic Substances List (DSL)
          - Some components are listed on the NDSL.
          - All ingredients are listed.
        - Canadian Ingredient Disclosure list (limit 0.1%)
          - 100-97-0 methenamine
        - Canadian Ingredient Disclosure list (limit 1%)
          - 7631-99-4 sodium nitrate

(Cont'd. from page 10)
Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Printing date 01.11.2018
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Trade name: Detagel™ Presplit™

7429-90-5 aluminium powder (pyrophoric)
7697-37-2 nitric acid

(Cont'd. from page 11)

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I
None of the ingredients are listed.

· 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.
H224 Extremely flammable liquid and vapour.
H228 Flammable solid.
H250 Catches fire spontaneously if exposed to air.
H261 In contact with water releases flammable gases.
H272 May intensify fire; oxidiser.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

· 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

(Cont'd. on page 13)
**Trade name: Detagel™ Presplit™**

| CAS: Chemical Abstracts Service (division of the American Chemical Society) |
| NFPA: National Fire Protection Association (USA) |
| HMIS: Hazardous Materials Identification System (USA) |
| DNEL: Derived No-Effect Level (REACH) |
| PNEC: Predicted No-Effect Concentration (REACH) |
| LC50: Lethal concentration, 50 percent |
| LD50: Lethal dose, 50 percent |
| PBT: Persistent, Bioaccumulative and Toxic |
| SVHC: Substances of Very High Concern |
| vPvB: very Persistent and very Bioaccumulative |
| Expl. 1.1: Explosives, Division 1.1 |
| Unst. Expl.: Explosives, Unstable explosives |
| Flam. Liq. 1: Flammable liquids, Hazard Category 1 |
| Flam. Sol. 2: Flammable solids, Hazard Category 2 |
| Pyr. Sol. 1: Pyrophoric Solids, Hazard Category 1 |
| Water-react. 2: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 2 |
| Ox. Liq. 3: Oxidising Liquids, Hazard Category 3 |
| Ox. Sol. 2: Oxidising Solids, Hazard Category 2 |
| Ox. Sol. 3: Oxidising Solids, Hazard Category 3 |
| Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A |
| Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 |
| Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 |
| Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 |

**Sources**

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Tampa, Florida USA 33602-2902
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Website: www.chemtelinc.com