

Safety Data Sheet

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



Printing date 28.07.2015

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

- **1.1 Product identifier**
- **Trade name:** Detagel™ Presplit™
- **Article number:** 1084
- **Other product identifiers:**
Powergel™ Powersplit™
Dynosplit C
SEC Detagel
SEC Detagel Presplit
- **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 are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).
Hazard Statement H412 is not applicable to the OSHA US regulations.
-  exploding bomb
- 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.

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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.

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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: 6484-52-2 EINECS: 229-347-8	ammonium nitrate Ox. Sol. 3, H272 Eye Irrit. 2, H319
CAS: 7631-99-4 EINECS: 231-554-3	sodium nitrate Ox. Sol. 2, H272 Eye Irrit. 2, H319
CAS: 100-97-0 EINECS: 202-905-8 Index number: 612-101-00-2	methenamine Flam. Liq. 1, H224; Flam. Sol. 2, H228 Skin Sens. 1, H317
CAS: 7429-90-5 EINECS: 231-072-3 Index number: 013-001-00-6	aluminium powder (pyrophoric) Pyr. Sol. 1, H250; Water-react. 2, H261
CAS: 7697-37-2 EINECS: 231-714-2 Index number: 007-004-00-1	nitric acid Ox. Liq. 3, H272 Skin Corr. 1A, H314
CAS: 78-11-5 EINECS: 201-084-3 Index number: 603-035-00-5	pentaerythritol tetranitrate (PETN) Unst. Expl., H200

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.

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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.

· Hazards Danger of blast or crush-type injuries.

· 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

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information.

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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

· Storage:

· Requirements to be met by storerooms and receptacles:

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 section 7.

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· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

100-97-0 methenamine

EV (Canada) Short-term value: 2 mg/m³, 0,35 ppm

7429-90-5 aluminium powder (pyrophoric)

PEL (USA) Long-term value: 15*; 15** mg/m³
*Total dust; ** Respirable fractionREL (USA) Long-term value: 10* 5** mg/m³
as Al*Total dust**Respirable/pyro powd./welding f.TLV (USA) Long-term value: 1* mg/m³
as Al; *as respirable fractionEL (Canada) Long-term value: 1,0 mg/m³
respirable, as AlEV (Canada) Long-term value: 5 mg/m³
aluminium-containing (as aluminium)

7697-37-2 nitric acid

IOELV (EU) Short-term value: 2,6 mg/m³, 1 ppmPEL (USA) Long-term value: 5 mg/m³, 2 ppmREL (USA) Short-term value: 10 mg/m³, 4 ppm
Long-term value: 5 mg/m³, 2 ppmTLV (USA) Short-term value: 10 mg/m³, 4 ppm
Long-term value: 5,2 mg/m³, 2 ppmEL (Canada) Short-term value: 4 ppm
Long-term value: 2 ppmEV (Canada) Short-term value: 10 mg/m³, 4 ppm
Long-term value: 5 mg/m³, 2 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

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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:**

Heating may cause an explosion.

- **Explosion limits:**

Lower:

Not determined.

Upper:

Not determined.

- **Vapour pressure:**

Not applicable.

- **Density:**

Not determined.

- **Relative density**

Not determined.

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- **Vapour density** Not applicable.
- **Evaporation rate** Not applicable.
- **Solubility in / Miscibility with water:** Variable, dependent upon product composition and packaging.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not applicable.
 - Kinematic:** Not applicable.
- **9.2 Other information** No further relevant information available.

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.

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- **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

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- ADR 0241 EXPLOSIVE, BLASTING, TYPE E
- IMDG EXPLOSIVE, BLASTING, TYPE E
- IATA FORBIDDEN
- 14.3 Transport hazard class(es)

- DOT, IMDG



- Class 1.1
- Label 1.1D

- ADR



- Class 1.1 (-)
- Label 1.1D

- IATA

- Class FORBIDDEN

- 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.

- Danger code (Kemler): -

- EMS Number: F-B,S-X

- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

- Transport/Additional information:

- ADR

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

- IMDG

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

- IATA

- UN "Model Regulation": UN0241, EXPLOSIVE, BLASTING, TYPE E, 1.1D, 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):

7697-37-2	nitric acid
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· Section 313 (Specific toxic chemical listings):

6484-52-2	ammonium nitrate
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7429-90-5	aluminium powder (pyrophoric)
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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
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· 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
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· Canadian Ingredient Disclosure list (limit 1%)

7631-99-4	sodium nitrate
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7429-90-5 aluminium powder (pyrophoric)

7697-37-2 nitric acid

· **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

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· **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

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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

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