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SECTION 1: Identification of the substance/mixture and of the company/ undertaking · 1.1 Product identifier · Trade name: CAST BOOSTERS · Article number: No other identifiers 1108 · Other product identifiers: DYNO® CORD SENSITIVE BOOSTERS - CS35, CS45, CS90, CS135 TROJAN® SPARTAN® TROJAN® SPARTAN® Slider TROJAN® Stinger **TROJAN® NB** TROJAN® NB UNIVERSAL **TROJAN®** Twinplex TROJAN® SPARTAN® SR TROJAN® SPARTAN® Cone **TROJAN®** Ringprime TROJAN® SPARTAN® CSU · 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

\cdot 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).



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Trade name: CAST BOOSTERS (Contd. of page 1) Expl. 1.1 H201 Explosive; mass explosion hazard. · Classification according to Directive 67/548/EEC or Directive 1999/45/EC E; Explosive R2: Risk of explosion by shock, friction, fire or other sources of ignition. · 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 · 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-determining components of labelling: pentaerythritol tetranitrate (PETN) octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX) perhydro-1,3,5-trinitro-1,3,5-triazine (RDX) 2,4,6-trinitrotoluene (TNT) aluminium powder (pyrophoric) · Hazard statements H201 Explosive; mass explosion hazard. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P210 P250 Do not subject to grinding/shock/friction. Wear protective gloves/protective clothing/eye protection/face protection. P280 DO NOT fight fire when fire reaches explosives. P373 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. Dispose of contents/container in accordance with local/regional/national/international P501 regulations. (Contd. on page 3)



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- 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

· HMIS Long Term Health Hazard Substances

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.

· Dangerous components: CAS: 78-11-5 pentaerythritol tetranitrate (PETN) EINECS: 201-084-3 💹 E R3 Index number: 603-035-00-5 🐼 Unst. Expl., H200 _______ T R23/24/25; ∰ E R2; ₩ N R51/53 Index number: 609-008-00-4 R33 CAS: 118-96-7 2.4.6-trinitrotoluene (TNT) 🔶 Expl. 1.1, H201 line Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 🗴 STOT RE 2, H373 \lambda Aquatic Chronic 2, H411 CAS: 7429-90-5 aluminum metal 👸 F R15 🛞 Water-react. 1, H260 (Contd. on page 4)



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	(Contd. of page 3)
CAS: 121-82-4	perhydro-1,3,5-trinitro-1,3,5-triazine (RDX)
EINECS: 204-500-1	😡 T R25; 🌉 E R2
	🐼 Expl. 1.1, H201
	Acute Tox. 3, H301
CAS: 2691-41-0	octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)
EINECS: 220-260-0	😡 T R24; 🗙 Xn R22; 🎆 E R2
	Expl. 1.1, H201
	Acute Tox. 3, H301; Acute Tox. 3, H311

· Additional information:

For the wording of the listed risk phrases refer to section 16.

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

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:

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: 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. Explosive; mass explosion hazard.

- 5.3 Advice for firefighters
- Protective equipment:
- Wear calf contained rear

Wear self-contained respiratory protective device. Wear fully protective suit.

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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 information.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate area. Wear protective clothing. Ensure adequate ventilation Keep away from ignition sources. 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.
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: Keep ignition sources away - Do not smoke. 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: 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.

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Store away from oxidising agents.

· 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 p	arameters vith limit values that require monitoring at the workplace:	
118-96-7 2,4,6-trinitrotoluene (TNT)		
PEL (USA)	Long-term value: 1,5 mg/m ³ Skin	
REL (USA)	Long-term value: 0,5 mg/m³ Skin	
TLV (USA)	Long-term value: 0,1 mg/m³ Skin; BEI-M	
EL (Canada)	Long-term value: 0,1 mg/m³ Skin	
EV (Canada)	Short-term value: 0,2 mg/m³, 0,02 ppm Long-term value: 0,1 mg/m³, 0,01 ppm Skin	
7429-90-5 alu	iminum metal	
PEL (USA)	Long-term value: 15*; 15** mg/m ³ *Total dust; ** Respirable fraction	
REL (USA)	Long-term value: 10* 5** mg/m³ as Al*Total dust**Respirable/pyro powd./welding f.	
TLV (USA)	Long-term value: 1* mg/m ³ as Al; *as respirable fraction	
EL (Canada)	Long-term value: 1,0 mg/m ³ respirable, as Al	
EV (Canada)	Long-term value: 5 mg/m³ aluminium-containing (as aluminium)	
121-82-4 perl	nydro-1,3,5-trinitro-1,3,5-triazine (RDX)	
REL (USA)	Short-term value: 3 mg/m ³ Long-term value: 1,5 mg/m ³ Skin	
TLV (USA)	Long-term value: 0,5 mg/m³ Skin	
	(Contd. on pag	



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EL (Canada) Long-term value: 0,5 mg/m ³
Skin
EV (Canada) Long-term value: 0,5 mg/m ³
Skin
• DNELs No further relevant information available.
• PNECs No further relevant information available.
· Ingredients with biological limit values:
118-96-7 2,4,6-trinitrotoluene (TNT)
BEI (USA) 1,5 % of hemoglobin
Medium: blood
Time: during or end of shift
Parameter: Methemoglobin (background, nonspecific, semi-quantitative)
 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 ignition sources away - Do not smoke.
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:
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.
· 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:
Face protection
Safety glasses
Salety glasses
Body protection: Impervious protective clothing
 Limitation and supervision of exposure into the environment No further relevant information available.
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· 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: Colour: Odour: Odour threshold: 	Solid material According to product specification Odourless Not determined.	
· pH-value:	Not applicable.	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	80 °C (176 °F) (trinitrotoluene) 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: Upper:	Not determined. Not determined.	
· Vapour pressure:	Not applicable.	
 Density at 20 °C (68 °F): Relative density Vapour density Evaporation rate 	1,55 - 1,65 g/cm³ (12,935 - 13,769 lbs/gal) Not determined. Not applicable. Not applicable.	
 Solubility in / Miscibility with water: 	Variable, dependent upon product composition and packaging.	
· Partition coefficient (n-octanol/water)	Not determined.	
 Viscosity: Dynamic: Kinematic: 9.2 Other information 	Not applicable. Not applicable. No further relevant information available.	

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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.
- Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- 10.3 Possibility of hazardous reactions Danger of explosion.

Toxic fumes may be released if heated above the decomposition point.

- · 10.4 Conditions to avoid Keep ignition sources away Do not smoke.
- 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:
- · LD/LC50 values relevant for classification: None.
- · 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.
- · Repeated dose toxicity: No further relevant information available.

SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity: Toxic for aquatic organisms
- 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.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small guantities. Danger to drinking water if even extremely small quantities leak into the ground.

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Also poisonous for fish and plankton in water bodies.

Toxic for 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. 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 official regulations.

SECTION 14: Transport information	
 14.1 UN-Number DOT, ADR, IMDG IATA 14.2 UN proper shipping name DOT, IMDG ADR IATA 14.3 Transport hazard class(es) DOT, ADR, IMDG 	UN0042 FORBIDDEN Boosters, without detonator 0042, BOOSTERS, WITHOUT DETONATOR FORBIDDEN
· Class · Label	1.1 1.1D
· IATA · Class · 14.4 Packing group · DOT, ADR, IMDG · IATA	FORBIDDEN II FORBIDDEN (Contd. on page 11)



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 14.5 Environmental hazards: 	
• Marine pollutant:	No
· Special marking (IATA):	Prohibited from Transport in Passenger Aircraft.
 14.6 Special precautions for user 	Not applicable.
• EMS Number:	F-B,S-X
14.7 Transport in bulk according to Annex II o	
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
 Limited quantities (LQ) 	0
 Excepted quantities (EQ) 	Code: E0
	Not permitted as Excepted Quantity
 Tunnel restriction code 	1
·IMDG	
 Limited quantities (LQ) 	0
 Excepted quantities (EQ) 	Code: E0
	Not permitted as Excepted Quantity
· IATA	FORBIDDEN.
· UN "Model Regulation":	UN0042, BOOSTERS, WITHOUT DETONATOR, 1.1D, II

SECTION 15: Regulatory information

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

· SARA

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

7429-90-5 aluminum metal

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65 (California):

· Chemicals known to cause cancer:

118-96-7 2,4,6-trinitrotoluene (TNT)

· 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.

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	nic Categories	
•	onmental Protection Agency)	
118-96-7	2,4,6-trinitrotoluene (TNT)	C
	perhydro-1,3,5-trinitro-1,3,5-triazine (RDX)	C
2691-41-0	octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	C
•	national Agency for Research on Cancer)	
118-96-7 2	,4,6-trinitrotoluene (TNT)	3
· TLV (Thres	hold Limit Value established by ACGIH)	
	aluminum metal	A4
121-82-4	perhydro-1,3,5-trinitro-1,3,5-triazine (RDX)	A
· NIOSH-Ca	(National Institute for Occupational Safety and Health)	
	ingredients are listed.	
· Canada		
	Domestic Substances List (DSL)	
All ingredier	nts are listed.	
· Canadian I	ngredient Disclosure list (limit 0.1%)	
None of the	ingredients are listed.	
· Canadian I	ngredient Disclosure list (limit 1%)	
118-96-7	2,4,6-trinitrotoluene (TNT)	
7429-90-5	aluminum metal	
· Other requ	lations, limitations and prohibitive regulations	
This produ	ict has been classified in accordance with hazard criteria of the (
•	and the SDS contains all the information required by the Controlled Proc	ducts Regulations.
· Substances	s of very high concern (SVHC) according to REACH, Article 57	

 \cdot 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.
H201	Explosive; mass explosion hazard.
H260	In contact with water releases flammable gases which may ignite spontaneously.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
R15	Contact with water liberates extremely flammable gases.
R2	Risk of explosion by shock, friction, fire or other sources of ignition.
R22	Harmful if swallowed.
R23/24/2	5 Toxic by inhalation, in contact with skin and if swallowed.
R24	Toxic in contact with skin.
R25	Toxic if swallowed.
R3	Extreme risk of explosion by shock, friction, fire or other sources of ignition.
R33	Danger of cumulative effects.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Internationa IMDG: Inter DOT: US D IATA: Intern GHS: Globa ACGIH: Am EINECS: E ELINCS: En CAS: Chen NFPA: Nati HMIS: Haz: WHMIS: W DNEL: Deri PNEC: Pre LC50: Leth LD50: Leth Expl. 1.1: E Unst. Expl	and européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the al Carriage of Dangerous Goods by Road) mational Maritime Code for Dangerous Goods epartment of Transportation hational Air Transport Association ally Harmonised System of Classification and Labelling of Chemicals lerican Conference of Governmental Industrial Hygienists uropean Inventory of Existing Commercial Chemical Substances uropean List of Notified Chemical Substances incel Abstracts Service (division of the American Chemical Society) onal Fire Protection Association (USA) ardous Materials Identification System (USA) orkplace Hazardous Materials Information System (Canada) ved No-Effect Level (REACH) dicted No-Effect Concentration (REACH) al concentration, 50 percent al dose, 50 percent xplosives, Division 1.1 Explosives, Unstable explosives t. 1: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 1
STOT RE 2 Aquatic Ch Sources SDS Pre ChemTel 1305 Noi Tampa, F	th Florida Avenue Florida USA 33602-2902
	North America 1-888-255-3924 Intl. +01 813-248-0573
Mahaita	www.chemtelinc.com

