



BEEZAASAN[®]



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**Manufacturer of Industrial
explosives and accessories**



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MSDS CAST BOOSTERS

1. PRODUCT & COMPANY IDENTIFICATION

Product Name:	DYNAEX PECASTEX
Product Code:	1578
Generic Material:	PETN + TNT
Velocity of Detonation:	7500 Meter/Sec.
Proper Shipping Name:	Cast Booster
UN No.:	0042
Synonyms:	Cast Primer, Explosive Booster, Primer, Booster.
Description:	It is made of PETN and TNT whose mixture is filled in a plastic or Paper shell. Cast booster deliver the driving force required for Generating maximum initiating energy and blasting efficiency.
Uses:	Mining, quarrying, and general blasting.
Recommended use:	As a primer explosive to explode non cap sensitive explosive.
Supplier:	BEEZAASAN EXPLOTECH LTD.
Address:	Vill. Bhanthala - Felsani, Ta. Balasinor, Dist. Mahisagar - 388255 Gujarat, India.
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2. HAZARDS IDENTIFICATION

Hazard classification of the product:

Code	Hazard Class	Hazard category
H201	Explosives	Division 1.1
H301	Acute toxicity, oral	3

Fire Hazards - May ignite if it comes in contact with combustible material or open flame. There is an extreme risk of fire and if involved in an explosive fire, an explosion could result.

Explosion Hazards - It is a self-explosive, it can explode on any kind of wrong transportation, wrong handling, wrong use practices, or friction, impact, static, and heat applied.

Special Hazards - The explosive can explode upon impact (sensitive to impact, not less than 15J), friction (friction sensitivity, above 300N), fire or other ignition sources.

Hazardous Combustion Products - No unusual combustion products are produced. However toxic fumes may occur.

Other Hazards - In case of fire extreme risk of explosion. Evacuate area and do not fight fire when fire reaches explosives.



3. PRECAUTIONARY INSTRUCTIONS

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
- Do not subject to grinding or shock.
- Do not eat, drink, or smoke when using this product.
- Do not throw product shell or boxes for passing.
- Avoid rushing while handling cast boosters.
- Avoid friction, impact, heat and electrostatic charge.

4. COMPOSITION & INFORMATION OF INGREDIENTS

Chemical Name	CAS No.	Proportion (weight %)
Penta Erythritol Tetra Nitrate (PETN)	78-11-5	50 to 60
Tri Nitro Toluene	118-96-7	30 to 40

5. PHYSICAL & CHEMICAL PROPERTIES

Physical State/Colour:	Solid shell of different diameter.
Odor:	Bitter
Colour:	Slight brown
Auto-ignition temperature:	180 - 200°C
Melting Point:	80 (TNT)
Melting Point:	140°C (PETN)
Decomposition Temperature:	200 to 240°C (TNT)
Decomposition Temperature:	150 to 190°C (PETN)
Explosive Properties:	7500 Meter/Sec.
Sensitivity to Mechanical Impact:	Sensitive to mechanical impact
Sensitivity to Static Discharge:	Sensitive to static discharge

6. FIRST-AID MEASURE

Inhalation - Not expected to be a hazard under normal conditions of use. In case of the inhaled the material remove the victim from the contaminated area and allow him to rest in a ventilated room or in the open air. If symptoms persist, such as coughing, consult a physician.

Skin Contact - Not expected to be a hazard under normal conditions of use. If the container breaks and product comes into contact with the skin remove contaminated clothing immediately, wash the affected areas thoroughly with water, and seek medical advice.

Eye Contact - Not expected to be a hazard under normal conditions of use. In case of contact of the product with eyes, immediately flush eyes with running water for 15 minutes, keeping the eyelids open, consult an ophthalmologist.



Ingestion - Not expected to be a hazard under normal conditions of use. Accidentally ingestion of the explosive mixture, may cause abdominal pain, loss of consciousness, weakness, dizziness, irritability, insomnia, and heartburn. Never give anything by mouth to an unconscious person. Rinse the mouth with water, but only if the victim is fully conscious, and seek medical advice.

General - PETN is a vasodilator. Prolonged or repeated exposure may cause symptoms similar to acute exposure and may affect hearing and the endocrine system.

7. FIRE FIGHTING MEASURE

Extinguishing Media - Large quantities of water. Do not fight fire when it is near or reaches explosives, explosion risk! Burning explosives cannot be extinguished with any fire-fighting equipment. Try to extinguish the fire before it reaches the product. In case of the risk of an explosion, do not attempt to extinguish the fire.

DO NOT ATTEMPT TO EXTINGUISH THE BURNING EXPLOSIVES! RISK OF EXPLOSION

Special Remark on Extinguishing Media - For fires near explosives, dry chemical, foams, steam and smothering devices are not effective, can lead to possible explosion and must not be used. If the initial fire is out of control, evacuate the building or site immediately and move away.

Do not fight fires involving Explosives - There is an extreme risk that explosives involved in a fire may detonate, especially if confined. Evacuate the area in all directions for 1 km or more if any amount of explosives is involved in a fire. Evacuation is recommended if the initial fire, not involving explosives, becomes intense. General extinguishers may be used on the initial fire not involving explosives. Water may be used to cool explosives not involved in the initial fire. Consult the most current Emergency Response Guidebook (ERG), for additional information.

Firefighting Instructions - When fighting the initial fire, not involving explosives, firefighters should follow standard firefighting procedures for the materials involved.

Precautionary Measures - It is recommended that the amount and location of any explosives stored near a fire be determined prior to committing firefighters to fight the fire.

8. ACCIDENTAL RELEASE MEASURE

These measures should be taken when the shell breaks or its explosive falls /spread on the ground.

Personal Precautions - Secure the area. Wear suitable personal protection equipment, cotton clothing and gloves. Unprotected persons are not allowed to access the area. All sorts of impact friction and sparks are to be avoided. Keep away from sources of heat and open flames.



Methods and material for containment and cleaning up - Avoid any impact, friction, or anything that may lead to a spark or electrostatic charge. Keep away from incompatible chemicals. Never use tools that generate sparks. Collect with non-sparking tools and fill into properly labelled containers and transfer for disposal by specialized teams.

Environmental Precautions - Prevent substance contamination from soil, water, drains, and underground waters. The spilled product must be collected and taken for disposal

9. STABILITY AND REACTIVITY

Reactivity - Explosive may detonate if subjected to fire, excessive impact or friction. Electrostatic charge, excessive temperature rise, naked flames and other causes of ignition can cause explosion.

Chemical Stability - Stable within the storage temperatures recommended, and stable at the recommended storage limit.

Incompatible materials - Organic amines, acids, bases, phosphorous, oxidisers.

Conditions to avoid - Protect from impact, friction, heat and Electrostatic charges.

10. TOXICOLOGICAL INFORMATION

Toxicological effects - Under normal conditions, the explosive is enclosed in special wrapping. If breaks the rope, the toxicity of the contents is similar to that of the component present in the highest percentage, namely TNT. Can cause slight irritation/bitterness to the mucous membranes. And PETN is a vasodilator, hence in case of inhalation causes effects similar to those of nitro-glycerine, i.e. headache, fatigue, decrease in blood pressure, nausea.

11. ECOLOGICAL INFORMATION

Toxicity - Toxic to aquatic life. May cause long lasting negative effects on aquatic environment. The product is practically insoluble in water. But in case of decomposition and explosions the environment can be harmed.

12. EXPOSURE CONTROL / PERSONAL PROTECTION

Technical measures - The generation and accumulation of electrostatic charge on people and equipment must be avoided by means of effective earthing. Provide good ventilation.

Respiratory protection - Not required during normal handling. Do not breathe fumes after detonation.

Eye protection - not required during normal handling.

Skin protection - Not required during normal handling. Work clothes must be antistatic, made of cotton for instance, and flame retardant.



Hand protection - Impermeable gloves covered with fabric.

Hygiene - Do not eat, drink, and smoke when working.

Other - Use appropriate anti-static safety footwear.

13. TRANSPORT INFORMATION

UN Number:	UN 0042
UN Proper Shipping Name:	Booster without detonator.
Transport Hazard Classes:	1.1D
Special Precautions:	As an explosive, the product is a high consequence dangerous Good And adequate transport precaution must be taken for Its security. Explosive should not be jerked or jumped.

14. HANDLING AND STORAGE

Precautions for Safe Handling - Handle with care, bearing in mind the potential hazards. Earthed all electrical equipment present and any conductive item. Keep the product well away from friction, impact, static and heat. Only personnel with appropriate professional expertise and qualifications are allowed to handle this product. The quantity of boosters under temporary storage should not exceed the quantity required for one shift at the site. The boxes must be handled with care and opened using tools that do not produce sparks and do not damage the contents. Do not smoke and do not use naked flame during handling. Do not eat, drink or smoke when handling the product. Wash your hands thoroughly after handling the product. Remove contaminated clothes and PPE'S before entering areas where food and drink are consumed.

Instruction for Storage - Storage rooms shall comply with the fire-fighting and rescue and controlled access requirements. Store in closed packages in cool dry place. Keep locked. Access allowed only to experts. In general storage must be licensed as required by the Explosives regulations.

15. DISPOSAL CONSIDERATIONS

Waste and used empty containers should be disposed in accordance with the national and local Safety Regulation for handling explosives. Mixing with other types of waste is not allowed. And it should be disposed of according to the disposal expert team.

16. REGULATORY INFORMATION

Classification - It is a deadly explosive, which has the potential to explode.

Risk Phrases - Susceptible to fire, impact, static, and heat. If these apply may result in explosion.



17. OTHER INFORMATION

This MSDS summarized to our best knowledge at the date of issue, the chemical health and safety hazard of the materials and general guidance on how to safely handle the material in the workplace. Since BEEZAASAN EXPLOTECH LTD. Cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, asses and control the risk arising from its use of the material. If clarification of further information is needed, the user should contact their BEEZAASAN EXPLOTECH LTD. Representative at the contact details on page no. 1

Our responsibility for product sold is subject to our standard term and conditions.



BEEZAASAN®



SOME OF OUR CLIENTS



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