



Safety Data Sheet

Geoprime(R)

Version 1.00

Revision Date 29.04.2021

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

Product identifier

Trade name

Geoprime(R)

Synonyms

Pentolite Cast Booster, Pentolite, Cast Booster, Explosive
Booster, Seismic Booster, Booster, Seismic.

Relevant identified uses of the substance or mixture and uses advised against

Use

Oil and Gas exploration.

Manufacturer or supplier's details

Company

Sasol Chemicals, a division of Sasol South Africa Ltd

Address

Sasol Place, 50 Katherine Street
Sandton
2090
South Africa

Telephone

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E-mail address

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Emergency telephone

+44 (0)1235 239 670 (Europe, Israel, Africa, Americas)
+44(0)1235 239 671 (Middle East, Arabic African countries)
+65 3158 1074 (Asia Pacific)
+86 400 120 6011 (China)
+27 (0)17 610 4444 (South Africa)
0800 112 890 RSA-Local only
+61 (2) 8014 4558 (Australia)

SECTION 2. Hazards identification

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Classification

Explosives

Division 1.1

Label elements

REGULATION (EC) No 1272/2008

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Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H201 Explosive; mass explosion hazard.

Precautionary Statements

Prevention	P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
	P240	Ground and bond container and receiving equipment.
	P250	Do not subject to grinding/ shock/ friction.
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
Response	P370 + P380	In case of fire: Evacuate area.
	P372	Explosion risk in case of fire.
	P373	DO NOT fight fire when fire reaches explosives.
Storage	P401	Store in accordance with local regulations.
Disposal	P501	Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

Other hazards

None known.

SECTION 3. Composition/information on ingredients

Mixture contained in a tube.

2,4,6-trinitrotoluene

Contents: >= 40.00 - <= 60.00 %W/W

CAS-No. 118-96-7

Index-No. 609-008-00-4

EC-No. 204-289-6



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pentaerythritol tetranitrate

Contents: ≥ 40.00 - ≤ 60.00 %W/W

CAS-No. 78-11-5

Index-No. 603-035-00-5

EC-No. 201-084-3



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SECTION 4. First aid measures

Description of necessary first-aid measures

Inhalation	No hazards which require special first aid measures. Not a likely route of exposure.
Skin contact	No hazards which require special first aid measures. Not a likely route of exposure.
Eye contact	No hazards which require special first aid measures. Not a likely route of exposure.
Ingestion	No hazards which require special first aid measures. Not a likely route of exposure.

Most important symptoms/effects, acute and delayed

Refer to SECTION 11

SECTION 5. Firefighting measures

Suitable extinguishing media	Do not fight fire. Evacuate personnel to safe areas.
Special hazards arising from the substance or mixture	Do not fight fire. Risk of explosion by shock, friction, fire or other sources of ignition. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

SECTION 6. Accidental release measures

Personal precautions	Evacuate personnel to safe areas.
Environmental precautions	Explosive properties
Methods for cleaning up	Disposal and clean up may only be done by authorised personnel. Recommendation: Contact the supplier for information for assistance before clean up and disposal is



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attempted. Pick up and transfer into a suitable container for disposal.

Reference to other sections Refer to section 8 and 13

SECTION 7. Handling and storage

Safe handling advice Take measures to prevent the build up of electrostatic charge. The danger areas must be delimited and identified using relevant warning and safety signs. Keep away from fire, sparks and heated surfaces.

Advice on protection against fire and explosion Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Explosion protection equipment required.

SECTION 8. Exposure controls/personal protection

Ingredients with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
TNT 2,4,6-TRINITROTOLUENE	TWA	0.5 mg/m ³	1995	South Africa RELs

Personal protective equipment

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection Protective gloves, Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain,

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Eye protection	duration of contact)., Gloves must be inspected prior to use. Safety goggles
Skin and body protection	Lightweight protective clothing Flame-resistant clothing
Hygiene measures	Keep away from food, drink and animal feedingstuffs. Wash hands thoroughly after handling.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Form	Solid
State of matter	Solid; at 20 ° C; 1,013 hPa
Color	Yellow to brown
Odor	Organic
Odor Threshold	No data available
Melting point/range	90 - 100 ° C
Boiling point/boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Relative vapor density	No data available
Density	1.60 - 1.70 g/cm ³
Water solubility	Insoluble, Immiscible

SECTION 10. Stability and reactivity

Reactivity	Hazardous decomposition products formed under fire conditions.
Chemical stability	No data available
Possibility of hazardous reactions	No data available
Conditions to avoid	Heat, flames and sparks.
Materials to avoid	Reducing agents. Alkali metals.
Hazardous decomposition products	No data available

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SECTION 11. Toxicological information

Further Information No toxicology information is available.

SECTION 12. Ecological information

Results of PBT and vPvB assessment This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Other adverse effects This product has no known ecotoxicological effects.

SECTION 13. Disposal considerations

Product Dispose of as special waste in compliance to local, national and international regulations. Disposal and clean up may only be done by authorised personnel. Recommendation: Contact the supplier for information for assistance before clean up and disposal is attempted.

Packaging Uncontrolled disposal or recycling of this packaging is not permitted and can be dangerous.

SECTION 14. Transport information

DG Pictogram



ADR

UN number: 0042

Class: 1.1

D;

Proper shipping name: BOOSTERS

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RID

UN number: 0042
 Class: 1.1
 D
 Proper shipping name: BOOSTERS

ADNR

UN number: 0042
 Class: 1.1
 D
 Proper shipping name: BOOSTERS

IMDG

UN number: 0042
 Class: 1.1
 EmS: F-B, S-X
 D;
 Proper shipping name: BOOSTERS

ICAO/IATA

UN number : 0042
 Class: 1.1
 Proper shipping name: BOOSTERS

SECTION 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

USA TSCA Inventory	All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)
Canadian Domestic Substances List (DSL)	All chemical constituents are listed in: Canadian Domestic Substances List (DSL) (See chapter 3)
Australian Inv. of Chem. Substances (AICS)	All chemical constituents are listed in: Australian Inv. of Chem. Substances (AICS) (See chapter 3)
New Zealand Inventory of Chemicals (NZIoC)	All chemical constituents are listed in: New Zealand Inventory of Chemicals (NZIoC) (See chapter 3)

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Jap. Inv. of Exist. & New Chemicals (ENCS)	All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals (ENCS) (See chapter 3)
Japan. Industrial Safety & Health Law (ISHL)	All chemical constituents are listed in: Japan. Industrial Safety & Health Law (ISHL) (See chapter 3)
Korea. Existing Chemicals Inventory (KECI)	All chemical constituents are listed in: Korea. Existing Chemicals Inventory (KECI) (See chapter 3)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	All chemical constituents are listed in: Philippines Inventory of Chemicals and Chemical Substances (PICCS) (See chapter 3)
China Inv. Existing Chemical Substances (IECSC)	All chemical constituents are listed in: China Inv. Existing Chemical Substances (IECSC) (See chapter 3)

SECTION 16. Other information

Full text of H-Statements.

This substance contains no components with H-statement.

All reasonable efforts were exercised to compile this SDS in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The SDS only provides information regarding the health, safety and environmental hazards at the date of issue, to facilitate the safe receipt, use and handling of this product in the workplace and does not replace any product information or product specifications. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which this product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which this product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place with respect to health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of this product.

Although all reasonable efforts were exercised in the compilation of this SDS, Sasol does not expressly warrant the accuracy of, or assume any liability for incomplete information contained herein or any advice given. When this product is sold, risk passes to the purchaser in accordance with the specific terms and conditions of sale.