



Safety Data Sheet

SafeStart™

Version 1.01

Revision Date 21.02.2018

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

Product identifier

Trade name SafeStart™

Synonyms Safestart Instantaneous Electronic Detonator

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

Use Mining and civil explosive detonator.

Manufacturer or supplier's details

Company Sasol Chemicals, a division of Sasol South Africa (Pty) Ltd

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SECTION 2. Hazards identification

Classification of the substance or mixture

South Africa. GHS Classification and Labelling of Chemicals - SANS 10234

Classification

Explosive

Division 1.1

Label elements

South Africa. GHS Classification and Labelling of Chemicals - SANS 10234

Pictogram



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/bond container and receiving equipment.

P250: Do not subject to grinding/shock/friction.

P280: Wear face protection.

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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	No data available

SECTION 3. Composition/information on ingredients

Mixture

Lead compounds with the exception of those specified elsewhere in this Annex

Contents: ≥ 51.00 - ≤ 52.00 %W/W

CAS-No. 7439-92-1

Index-No. 082-001-00-6

EC-No. 231-100-4

Lead Diazide; Lead Azide

Contents: ≥ 0.20 - ≤ 0.60 %W/W

CAS-No. 13424-46-9

Index-No. 082-003-00-7

EC-No. 236-542-1

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. First aid measures

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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	Risk of explosion by shock, friction, fire or other sources of ignition.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

SECTION 6. Accidental release measures

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Personal precautions	Risk of explosion by shock, friction, fire or other sources of ignition. Evacuate personnel to safe areas.
Environmental precautions	Explosive properties Prevent release into the environment
Methods for cleaning up	Closed units (shells) can be picked up by hand (with due precautionary measures taken, e.g. static grounding, no friction or impact, ambient temperatures) and placed in a cardboard box for disposal. Broken open shells should only be handled by properly trained personnel as the hazard of explosion is severe in this case. Chemical neutralization and desensitizing or in situ destruction need to be done on the damaged shells. 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.
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. Explosive charge is unprotected - static discharge into the shell or impact (stabbing) into the shell may cause detonation!
Advice on protection against fire and explosion	Take measures to prevent the build up of electrostatic charge. Keep away from sources of ignition - No smoking. Ground/bond container and receiving equipment - if the explosive is electrostatically sensitive.



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Requirements for storage areas and containers Keep product dry to prevent copper shells and lead azide reacting to form sensitive copper azide

Advice on common storage No data available

SECTION 8. Exposure controls/personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
ALUMINIUM METAL, RESPIRABLE DUST	TWA	5 mg/m3	1995	South Africa RELs
ALUMINIUM METAL, TOTAL INHALABLE DUST	TWA	10 mg/m3	1995	South Africa RELs

Personal protective equipment

Respiratory protection No personal respiratory protective equipment normally required.

Hand protection No hand protection required under normal conditions.

Eye protection Safety glasses

Skin and body protection Lightweight protective clothing Rubber or plastic boots

Hygiene measures Keep away from food, drink and animal foodstuffs.

SECTION 9. Physical and chemical properties

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Information on basic physical and chemical properties

Form	Shell with protruding wires
State of matter	Solid
Colour	silver
Odour	Odourless
Odour Threshold	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Auto-ignition temperature	> 100 ° C
Relative vapour density	No data available
Water solubility	Insoluble, Immiscible

SECTION 10. Stability and reactivity

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Impact, heat or flame may cause an explosion
Conditions to avoid	Heat, flames and sparks. Detonate when subject to static discharges.
Materials to avoid	Reducing agents. Organic materials. Metals. Alkali metals
Hazardous decomposition	Carbon monoxide. Carbon dioxide (CO ₂). Nitrogen oxides

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products (NOx).Lead oxides

SECTION 11. Toxicological information

Further Information No data available

SECTION 12. Ecological information

Mobility in soil No data available

Results of PBT and vPvB assessment This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Other adverse effects No information on ecology is available.

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.

SECTION 14. Transport information

ADR

UN number: 0030

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Class: 1.1

B;

Proper shipping name: DETONATORS, ELECTRIC

RID

UN number: 0030

Class: 1.1

B

Proper shipping name: DETONATORS, ELECTRIC

ADNR

UN number: 0030

Class: 1.1

B

Proper shipping name: DETONATORS, ELECTRIC

IMDG

UN number: 0030

Class: 1.1

EmS: F-B, S-X



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B;

Proper shipping name: DETONATORS, ELECTRIC

Marine pollutant Not a Marine Pollutant

ICAO/IATA

UN number : 0030

Class: 1.1

Proper shipping name: DETONATORS, ELECTRIC

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)
Jap. Inv. of Exist. & New Chemicals (ENCS)	All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals (ENCS) (See chapter 3)



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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.