



Safety Data Sheet

Explogel™ V Series

Version 1.04

Revision Date 21.02.2018

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

Product identifier

Trade name Explogel™ V Series

Synonyms Explogel™, Jumbo Explogel Explosmooth, V4, V6, V8, V10, V12, Watergel Cartridge, Watergel Explosive, Pillow Pack, Slack Pack

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

Use Mining and civil explosive

Manufacturer or supplier's details

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

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Sandton
2090
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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

Explosives

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, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P230: Keep wetted with water.

P240: Ground/bond container and receiving equipment.

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



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	P280: Wear protective gloves/ protective clothing/ eye protection/ face 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	No data available

SECTION 3. Composition/information on ingredients

Mixture

Ammonium Nitrate

Contents: ≥ 27.00 - ≤ 70.00 %W/W

CAS-No. 6484-52-2

Index-No.

EC-No. 229-347-8

Hazard statements *H272 H319*

Sodium Nitrate

Contents: ≥ 1.00 - ≤ 25.00 %W/W

CAS-No. 7631-99-4

Index-No.

EC-No. 231-554-3

Hazard statements *H319 H272*

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Monomethylamine Nitrate

Contents: ≥ 18.00 - ≤ 36.00 %W/W

CAS-No. 22113-87-7

Index-No.

EC-No. 244-787-0

Hazard statements *H314 H318*

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

SECTION 4. First aid measures

Description of necessary first-aid measures

Inhalation No hazards which require special first aid measures.

Skin contact No hazards which require special first aid measures.

Eye contact No hazards which require special first aid measures.

Ingestion No hazards which require special first aid measures.

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.

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Special hazards arising from the substance or mixture	Risk of explosion by shock, friction, fire or other sources of ignition. Exposure to decomposition products may be a hazard to health. In the event of fire and/or explosion do not breathe fumes.
Special protective equipment for firefighters	In the event of fire, wear self-contained breathing apparatus.

SECTION 6. Accidental release measures

Personal precautions	Evacuate personnel to safe areas. Remove all sources of ignition. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	Explosive properties Do not allow to enter drains (danger of explosion). If the product contaminates rivers and lakes or drains inform respective authorities. Prevent release into the environment
Methods for cleaning up	Broken open cartridges should only be handled by properly trained personnel. 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	The danger areas must be delimited and identified using
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relevant warning and safety signs. Keep away from fire, sparks and heated surfaces.

Advice on protection against fire and explosion Keep away from sources of ignition - No smoking.

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/m ³	1995	South Africa RELs
ALUMINIUM METAL, TOTAL INHALABLE DUST	TWA	10 mg/m ³	1995	South Africa RELs

Personal protective equipment

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

Hand protection Gloves suitable for permanent contact:
 Material: natural rubber/natural latex, polychloroprene, butyl-rubber, Polyvinylchloride
 Break through time: 8 h
 Material thickness: 0.5 mm

Gloves suitable for permanent contact:
 Material: fluoro carbon rubber - FKM
 Break through time: 8 h

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	Material thickness: 0.4 mm
	Gloves suitable for permanent contact:
	Material: nitrile rubber/nitrile latex
	Break through time: 8 h
	Material thickness: 0.35 mm
	Unsuitable gloves
	Material: leather
Eye protection	Safety goggles
Skin and body protection	Lightweight protective 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	Rubber-like gel
State of matter	Liquid
Colour	silver grey Black White
Odour	Amine-like
Odour Threshold	No data available
pH	4.8 - 6.2; acidic
Melting point/range	0 ° C
Boiling point/boiling range	100 ° C
Evaporation rate	No data available

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Flammability (solid, gas)	No data available
Auto-ignition temperature	> 100 ° C
Relative vapour density	No data available
Density	0.69 - 1.38 g/cm ³
Water solubility	Partly soluble, Partly miscible

SECTION 10. Stability and reactivity

Reactivity	Hazardous decomposition products formed under fire conditions. Ammonia gas and nitrous oxides may be liberated at high temperatures
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 decomposition if stored normally.

SECTION 11. Toxicological information

Further Information	No toxicology information is available.
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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.

SECTION 14. Transport information

ADR

UN number: 0241

Class: 1.1

D;

Proper shipping name: EXPLOSIVE, BLASTING, TYPE E

RID



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UN number: 0241

Class: 1.1

D

Proper shipping name: EXPLOSIVE, BLASTING, TYPE E

ADNR

UN number: 0241

Class: 1.1

D

Proper shipping name: EXPLOSIVE, BLASTING, TYPE E

IMDG

UN number: 0241

Class: 1.1

EmS: F-B, S-X

D;

Proper shipping name: EXPLOSIVE, BLASTING, TYPE E

ICAO/IATA

UN number : 0241



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Class:	1.1
Proper shipping name:	EXPLOSIVE, BLASTING, TYPE E
Further Information	Product is classified as an explosive according to South African Explosives Act 15 of 2003

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)
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)



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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

- H272 May intensify fire; oxidizer.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.

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.