

# Safety Data Sheet

## Emex 90

Version 1.01

Revision Date 27.08.2025

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

#### Product identifier

**Trade name** Emex 90

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

**Use** Emulsion explosives for use in the mining industry

#### 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** +27103445000

**E-mail address** sasolchem.info.sa@sasol.com

**Emergency telephone** +27 (0)17 610 4444 (South Africa)

### 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

#### Hazard pictograms



**Signal Word** : Danger

**Hazard Statements** : H201 Explosive; mass explosion hazard.

#### Precautionary Statements

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### Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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.

### 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.  
P410 + P403 Protect from sunlight. Store in a well-ventilated place.

### 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

### HAZARDOUS INGREDIENTS

#### ammonium nitrate

**Contents:**  $\geq 60.00$  -  $< 85.00$  %W/W

**CAS-No.** 6484-52-2

**Index-No.**

**EC-No.** 229-347-8

#### sodium nitrate

**Contents:**  $\geq 5.00$  -  $< 15.00$  %W/W

**CAS-No.** 7631-99-4

**Index-No.**

**EC-No.** 231-554-3

#### water

**Contents:**  $\geq 5.00$  -  $\leq 15.00$  %W/W

**CAS-No.** 7732-18-5

**Index-No.**

**EC-No.** 231-791-2

**Hazard Statements** NA:



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**Synthetic wax, Paraffinic hydrocarbons**

**Contents:**  $\leq 3.50$  %W/W

**CAS-No.** 8002-74-2

**Index-No.**

**EC-No.** 232-315-6

**Hazard Statements** *NA*:

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### SECTION 4. First aid measures

#### Description of necessary first-aid measures

<b>Skin contact</b>	Wash off immediately with soap and plenty of water. Wash contaminated clothing before re-use. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.
<b>Ingestion</b>	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Seek immediate medical attention/advice.
<b>Most important symptoms/effects, acute and delayed</b>	

Refer to SECTION 11

### SECTION 5. Firefighting measures

<b>Suitable extinguishing media</b>	Evacuate personnel to safe areas. Do not fight fire.
<b>Special hazards arising from the substance or mixture</b>	Risk of explosion by shock, friction, fire or other sources of ignition.
<b>Special protective equipment for firefighters</b>	When controlling fires before involvement of explosives, wear self-contained breathing apparatus and protective suit. When fire reaches material, evacuate and let it burn to completion.

### SECTION 6. Accidental release measures

<b>Personal precautions</b>	Evacuate personnel to safe areas. Risk of explosion by shock, friction, fire or other sources of ignition.
<b>Environmental precautions</b>	Explosive properties
<b>Methods for cleaning up</b>	Disposal and clean up may only be done by authorised personnel. Pick up and transfer into a suitable container for disposal. Recommendation: Contact the supplier for information for assistance before clean up and disposal is attempted.
<b>Reference to other sections</b>	Refer to section 8 and 13

### SECTION 7. Handling and storage

<b>Safe handling advice</b>	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 (No Smoking). Keep away
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from heat and flame.

#### 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. Use explosion-proof equipment. Explosion protection equipment required.

## SECTION 8. Exposure controls/personal protection

### Ingredients with workplace control parameters

#### NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

No personal respiratory protective equipment normally required.

#### Hand protection

Gloves suitable for permanent contact.:  
 Material: natural rubber/natural latex, polychloroprene, butyl-rubber, Polyvinyl chloride  
 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  
 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 glasses

#### Skin and body protection

Lightweight protective clothing Safety shoes

#### Hygiene measures

Keep away from food, drink and animal foodstuff.

## SECTION 9. Physical and chemical properties

### Information on basic physical and chemical properties

<b>Form</b>	Paste like material sleeved in plastic with metal end clips
<b>State of matter</b>	Solid; at 20 °C; 1,013 hPa
<b>Odor</b>	Waxy
<b>Odor Threshold</b>	No data available
<b>pH</b>	4 - 6
	No data available

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<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Autoignition temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Lower explosion limit</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Relative vapor density</b>	No data available
<b>Density</b>	1.00 - 1.29 g/cm <sup>3</sup> ; 25 °C
<b>Water solubility</b>	Insoluble
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Viscosity, kinematic</b>	No data available

#### SECTION 10. Stability and reactivity

<b>Reactivity</b>	Hazardous decomposition products formed under fire conditions. Detonation or heating can release hazardous gases.
<b>Chemical stability</b>	No data available
<b>Possibility of hazardous reactions</b>	No data available
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Materials to avoid</b>	Organic materials Combustible material Flammable liquids Corrosive substances, sulphur, finely divided metals, charcoal, cork and sawdust. Chlorates. Permanganates.
<b>Hazardous decomposition products</b>	Nitrogen oxides (NO <sub>x</sub> ) Carbon oxides. Metal oxides

#### SECTION 11. Toxicological information

<b>Acute oral toxicity</b>	Acute toxicity estimate : > 2,000 mg/kg; Calculation method;
<b>Skin irritation</b>	No data available
<b>Eye irritation</b>	No data available
<b>Sensitization</b>	No data available
<b>Repeated dose toxicity</b>	No data available
<b>Carcinogenicity</b>	No data available

#### SECTION 12. Ecological information

<b>Toxicity to fish</b>	ammonium nitrate: semi-static test; Cyprinus carpio; 48 h; LC50; > 100 mg/l; (literature value)
<b>Toxicity to algae</b>	No data available
<b>Toxicity to bacteria</b>	No data available
<b>Toxicity to fish</b>	No data available
<b>Chronic toxicity in aquatic invertebrates</b>	No data available
<b>Biodegradability</b>	No data available

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**Physico-chemical removability** No data available  
**Bioaccumulation** No data available

#### SECTION 13. Disposal considerations

**Product** Dispose of in accordance with South African Explosives Act 15 of 2003. 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:** 0241  
**Class:** 1.1  
 D;  
**Proper shipping name:** EXPLOSIVE, BLASTING, TYPE E

**RID**  
**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



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**ICAO/IATA**

**UN number :** 0241

**Class:** 1.1

**Proper shipping name:** EXPLOSIVE, BLASTING, TYPE E

#### SECTION 15. Regulatory information

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

<b>USA TSCA Inventory</b>	All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)
<b>Canadian Domestic Substances List (DSL)</b>	All chemical constituents are listed in: Canadian Domestic Substances List (DSL) (See chapter 3)
<b>Australian Inv. of Chem. Substances (AICS)</b>	All chemical constituents are listed in: Australian Inv. of Chem. Substances (AICS) (See chapter 3)
<b>New Zealand Inventory of Chemicals (NZIoC)</b>	All chemical constituents are listed in: New Zealand Inventory of Chemicals (NZIoC) (See chapter 3)
<b>Jap. Inv. of Exist. &amp; New Chemicals (ENCS)</b>	All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals (ENCS) (See chapter 3)
<b>Japan. Industrial Safety &amp; Health Law (ISHL)</b>	All chemical constituents are listed in: Japan. Industrial Safety & Health Law (ISHL) (See chapter 3)
<b>Korea. Existing Chemicals Inventory (KECI)</b>	All chemical constituents are listed in: Korea. Existing Chemicals Inventory (KECI) (See chapter 3)
<b>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</b>	All chemical constituents are listed in: Philippines Inventory of Chemicals and Chemical Substances (PICCS) (See chapter 3)
<b>China Inv. Existing Chemical Substances (IECSC)</b>	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.

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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.