

Safety Data Sheet

Emex 50

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 50

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



Safety Data Sheet

Emex 50

Version 1.01

Revision Date 27.08.2025

| | |
|-------------------|---|
| Prevention | P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P240 Ground/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. |
| 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: ≥ 60.00 - < 85.00 %W/W

CAS-No. 6484-52-2

Index-No.

EC-No. 229-347-8

sodium nitrate

Contents: ≥ 5.00 - < 15.00 %W/W

CAS-No. 7631-99-4

Index-No.

EC-No. 231-554-3

water

Contents: ≥ 5.00 - ≤ 15.00 %W/W

CAS-No. 7732-18-5

Index-No.

EC-No. 231-791-2

Hazard Statements NA:



Safety Data Sheet

Emex 50

Version 1.01

Revision Date 27.08.2025

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:*



Safety Data Sheet

Emex 50

Version 1.01

Revision Date 27.08.2025

SECTION 4. First aid measures

Description of necessary first-aid measures

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

Refer to SECTION 11

SECTION 5. Firefighting measures

| | |
|--|---|
| Suitable extinguishing media | Evacuate personnel to safe areas. Do not fight fire. |
| 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 | 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

| | |
|------------------------------------|---|
| Personal precautions | Evacuate personnel to safe areas. Risk of explosion by shock, friction, fire or other sources of ignition. |
| Environmental precautions | Explosive properties |
| Methods for cleaning up | 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. |
| 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 (No Smoking). Keep away |
|-----------------------------|---|



Safety Data Sheet

Emex 50

Version 1.01

Revision Date 27.08.2025

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

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

Safety Data Sheet

Emex 50

Version 1.01

Revision Date 27.08.2025

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

SECTION 10. Stability and reactivity

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

SECTION 11. Toxicological information

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

SECTION 12. Ecological information

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

Safety Data Sheet

Emex 50

Version 1.01

Revision Date 27.08.2025

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



Safety Data Sheet

Emex 50

Version 1.01

Revision Date 27.08.2025

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

| | |
|---|---|
| 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) |
| 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.

Print Date 27.08.2025

10000018734

8/9



Safety Data Sheet

Emex 50

Version 1.01

Revision Date 27.08.2025

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.