



Safety Data Sheet

Expanfo(TM)

Version 1.00

Revision Date 12.12.2023

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

Product identifier

Trade name Expanfo(TM)
Synonyms Expanfo™100, Expanfo™200, Expanfo™300, ANFO

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

Use Explosives

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 number +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
	Eye irritation	Category 2
	Specific target organ toxicity - single exposure	Category 3
	Specific target organ toxicity - repeated exposure	Category 2
	Long-term (chronic) aquatic hazard	Category 2

Label elements


REGULATION (EC) No 1272/2008

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Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	<p>H201 Explosive; mass explosion hazard. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.</p>
Precautionary statements		
Prevention		<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P234 Keep only in original packaging. 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. P264 Wash the contact area thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P260 Do not breathe dust. P273 Avoid release to the environment.</p>
Response		<p>P370 + P372 + P380 + P373 In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P317 If eye irritation persists: Get medical advice/ attention. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P319 Get medical help if you feel unwell. P391 Collect spillage.</p>
Storage		<p>P401 Store in accordance with the particular national regulations. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.</p>
Disposal		<p>P503 Refer to manufacturer/ supplier/ for information on disposal/ recovery/ recycling.</p>
Other hazards		None known.



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SECTION 3. Composition/information on ingredients

HAZARDOUS INGREDIENTS

Ammonium Nitrate

Contents: ≥ 93.00 - ≤ 95.00 %W/W

CAS-No. 6484-52-2

Index-No.

EC-No. 229-347-8

Hazard statements H272 H319

Kerosine (Fischer-Tropsch), C7-16 with alkylarom.

Contents: ≤ 7.00 %W/W

CAS-No. 2243403-81-6

Index-No.

EC-No.

Hazard statements H226 H304 H336 H372 H411

Heptane; n-Heptane

Contents: ≥ 1.00 - < 2.50 %W/W

CAS-No. 142-82-5

Index-No. 601-008-00-2

EC-No. 205-563-8

Hazard statements H225 H315 H304 H336 H410 H400

n-Octane

Contents: ≥ 1.00 - < 2.50 %W/W

CAS-No. 111-65-9

Index-No. 601-009-00-8

EC-No. 203-892-1

Hazard statements H225 H304 H315 H336 H410

methylcyclohexane

Contents: ≥ 1.00 - < 2.50 %W/W

CAS-No. 108-87-2

Index-No. 601-018-00-7

EC-No. 203-624-3

Hazard statements H225 H315 H304 H336 H411

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SECTION 4. First aid measures

Description of necessary first-aid measures

Inhalation	Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If breathing is difficult, give oxygen. Get medical attention/advice if you feel unwell.
Skin contact	Wash off immediately with soap and plenty of water. Wash contaminated clothing before reuse. 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	Do not fight fire. Evacuate personnel to safe areas.
Special hazards arising from the substance or mixture	Do not fight fire. Evacuate area immediately. Nitrogen oxides (NOx) and carbon oxides are produced during combustion. 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	Use personal protective equipment. Handle in accordance with good industrial hygiene and safety practice.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Try to prevent the material from entering drains or water courses.
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 attempted. Refer to standard code of practice from supplier.
Reference to other sections	Refer to section 8 and 13

SECTION 7. Handling and storage



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Safe handling advice Wear personal protective equipment. Avoid contact with skin and eyes. Ensure adequate ventilation. Keep away from flames and sparks. Minimize handling and mechanical stressing of product. In case of dust generation during handling, wear dust respiratory protection.

Advice on protection against fire and explosion No data available.

Requirements for storage areas and containers Store in a segregated, approved and labeled area. Keep separate from detonators and incendiary devices. Keep in a cool, well-ventilated place. Keep away from direct sunlight. See South African Explosives Act 26 of 1956.

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
N-HEPTANE	TWA	1,600 mg/m ³	1995	South Africa RELs
N-HEPTANE	TWA	400 ppm	1995	South Africa RELs
	STEL	2,000 mg/m ³	1995	South Africa RELs
	STEL	500 ppm	1995	South Africa RELs
N-OCTANE	TWA	1,450 mg/m ³	1995	South Africa RELs
N-OCTANE	TWA	300 ppm	1995	South Africa RELs
	STEL	1,800 mg/m ³	1995	South Africa RELs
	STEL	375 ppm	1995	South Africa RELs

Exposure controls

Engineering measures

Use electrically conductive or static dissipative equipment. Minimize handling and mechanical stressing of product.

Personal protective equipment

Respiratory protection In case of dust generation during handling, wear dust respiratory protection.

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	Wash hands before breaks and immediately after handling the product.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Form	Solid and impregnated with oil.
State of matter	Solid
Colour	White to grey
Odour	Characteristic oily odor.
Odour Threshold	No data available.
pH	4.5 - 6.0
Melting point/range	170 °C
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Auto-ignition temperature	No data available.
Lower explosion limit	No data available.
Upper explosion limit	No data available.
Vapour pressure	No data available.
Relative vapour density	No data available.
Density	0.60 - 0.85 g/cm ³ ; 25 °C
Water solubility	93 - 95 g/l 25 °C
Partition coefficient: n-octanol/water	No data available.
Viscosity, kinematic	No data available.

SECTION 10. Stability and reactivity

Reactivity	No data available.
Chemical stability	No data available.
Possibility of hazardous reactions	No data available.
Conditions to avoid	Heat, flames and sparks. Keep away from combustible material.
Materials to avoid	Reducing agents. Acids. Alkali metals. Organic materials Flammable materials Chlorates. Corrosive substances, sulphur, finely divided metals, charcoal, cork and sawdust. Nitric acid
Hazardous decomposition products	Carbon oxides. Nitrous oxide.

SECTION 11. Toxicological information

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Acute inhalation toxicity	No data available.
Skin irritation	No data available.
Eye irritation	Causes serious eye irritation.
Sensitisation	No data available.
Repeated dose toxicity	May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	No data available.

SECTION 12. Ecological information

Mobility in soil	No data available.
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	Toxic to aquatic life with long lasting effects.

SECTION 13. Disposal considerations

Product	Dispose of as special waste in compliance to local, national and international regulations. Refer to standard code of practice from supplier.
Packaging	Dispose of spent product packaging responsibly and lawfully with due consideration for health, safety and the environment.

SECTION 14. Transport information

DG Pictogram



ADR	
UN number:	0082
Class:	1.1 D;
Proper shipping name:	EXPLOSIVE, BLASTING, TYPE B
RID	
UN number:	0082
Class:	1.1 D
Proper shipping name:	EXPLOSIVE, BLASTING, TYPE B
ADNR	
UN number:	0082
Class:	1.1 D
Proper shipping name:	EXPLOSIVE, BLASTING, TYPE B



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IMDG

UN number: 0082
Class: 1.1
EmS: F-B, S-Y
D;

Proper shipping name: EXPLOSIVE, BLASTING, TYPE B
Marine pollutant Marine pollutant

ICAO/IATA

UN number : 0082
Class: 1.1
Proper shipping name: EXPLOSIVE, BLASTING, TYPE B

SECTION 15. Regulatory information

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

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)
USA TSCA Inventory	All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)

SECTION 16. Other information

Full text of H-Statements

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H272 May intensify fire; oxidizer.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.



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- H336 May cause drowsiness or dizziness.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

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.