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Document Type:

Safety Data Sheet

Conforms to ISO 11014:2009

INNOFEX™

1. Identification of the product and Company Identification

Product Name	INNOFEX™	Manufactured/ supplied by
Product use	Underground and surface blasting operations	BME
Synonyms	ANFO	A division of Omnia Group (Pty) Ltd
Chemical Formula	Not applicable	Physical address
Emergency telephone number	(+27) 11 706-3398	Omnia Holdings, Building H
QR code		Monte Circle Business Park 178 Montecasino Boulevard Fourways Sandton, 2191 Postal address P.O. Box 70040 Bryanston, 2021 Gauteng, South Africa Contact Tel: +27 11 7098888 E-mail: info@bme.co.za

Hazards identification

This substance is classified as dangerous according to Directive 1999/45/EC and its amendments.

GHS Classification:

H201 Explosive; mass explosion hazard.

Skin Irrit. 2: H315 Causes skin irritation. Eye Irritation 2A: H319 Causes serious eye irritation Acute Tox. 5: H303 May be harmful if swallowed.

GHS precautionary Statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep wetted.

Acute Tox. 5:

Do not subject to grinding/shock/friction.

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

Store in accordance with local/regional/national/international regulations.

H333 May be harmful if inhaled.

Additional hazards: None identified

Hazardous in case of skin contact (irritant), in case of eye contact (irritant) of inhalation Effects and symptoms **Aggravating conditions**

Repeated or continues exposure to any toxic substance may produce general deterioration of health

by accumulation in human organs.

See toxicological information (section 11)

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Composition/information on ingredients

Substance/preparation: Preparation

Chemical name	CAS No	%	EC Number	GHS Classification Ox. Liq. 2 H272 Skin Irrit. 2, H315 Eye Irritation 2A, H319 Acute Tox. 5, H303 Acute Tox. 5, H333
Ammonium Nitrate	6484-52-2	> 90	229-347-8	
Fuel additive		< 10		Flam. Liq. 3, H226

4. First aid measures

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention. No

additional remarks.

Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by

mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get

medical attention if symptoms appear

Skin contact Incase of skin contact - immediately flush skin with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical

Eve contact Check for and remove any contact lenses. In case of contact immediately flush eyes with plenty of

water for at least 20 minutes. Cold water may be used. Get medical attention.

Note to physician No specific treatment, treat symptomatically.

Protection of first aiders No additional remarks.

5. Fire-fighting measures

Extinguishing media

DO NOT fight fire when it reaches material. Suitable

Not suitable Unusual fire/explosion hazards

Hazardous thermal

decomposition products

Special fire fighting procedures

Hazardous gases will result from fire or detonation (nitrogen oxides and carbon oxide).

When fighting fire before explosives are involved, fire fighters should wear positive pressure self contained breathing apparatus (SCBA) and full turnout gear. Fire fighters' protective clothing will provide limited protection. DO NOT ATTEMPT TO FIGHT FIRE WHEN IT REACHES EXPLOSIVES.

Fire should be allowed to burn out - withdraw all personnel from the vicinity of the incident (out of

line of sight and away from windows or glass panels). Protection of fire fighters Use an approved/certified respirator or equipment.

No additional remarks.

Explodes when heated.

Accidental release measures

Personal precautions Do not touch spilled material or damaged vessels or containers. Evacuate surrounding areas.

Environmental precautions Dispose waste using a professional registered waste disposal company.

Note: See section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

Handling Keep locked away. Do not expose to sources of ignition, such as electrostatic discharge. Avoid

contact with incompatible materials such as reducing agents and combustible materials. Suitable protective clothing should be worn. Avoid contact with skin and eyes and do not ingest and avoid inhaling dust. In case of ingestion seek medical advice. Wear suitable respiratory equipment in case

of insufficient ventilation.

Storage must be in accordance with relevant explosive legislation. Keep separate from all organic Storage

materials, chemical sulphur, flammable liquids, chlorates, permanganates, finely divided metals,

charcoals, coke, cork or sawdust.

Packaging materials

Recommended use: Store in original packaging. Not suitable No additional remarks.

Exposure controls/personal protection

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Engineering measures : Ensure sufficient ventilation, to remove dust and fumes and avoid electrostatic discharge.

Hygiene measures : Wash hands after handling compounds and before eating, smoking, using ablution facilities and at

the end of the day.

Occupational exposure limits:

Ingredient name
Occupational exposure limits
No additional information
No additional information

Recommended monitoring

procedures : No

Personal protective equipment

: No additional information.

Respiratory system : Approved or certified dust respirator.
Skin and body : Overalls recommended.

Skin and body : Overalls Hands : Gloves

Eyes : Safety glasses with side shields recommended.

9. Physical and chemical properties

Physical state : Free flowing 2 to 3 mm diameter spherical granules

Colour : White / of white / pink / reddish-grey colour

Odour : Slight smell of hydrocarbon fuel

Odour threshold : Not available

Boiling point : Decomposition temperature approximately 240 °C

Not applicable

Melting point Approximately 170 °C Flash point Not applicable Flammability Non-Flammable 0.85 - 1.08 g/ml Density Vapor Density Not available Vapour pressure Not available **Evaporation rate** Not available Solubility - Water Completely soluble

Solubility - Solvent : Water
Solubility - Coefficient : Not available
pH : Not available

Explosives properties : Explosive in presence of open flame, sparks or static discharge and heat.

Fire hazards in presence of

various substances

: Not available (May explode at temperatures > 100 degrees C)

Auto-ignition temperature:Not availableViscosity:Not availableNeurotoxicity:Not available

10. Stability and reactivity

Stability : The product is stable. As a standalone product, Innofex™ may be used in ground temperatures up to

65°C. It may not be used in reactive ground or hot holes.

Conditions to avoid : IMPACT, HIGH TEMPERATURE, SPARKS AND SOURCES OF IGNITION MAY CAUSE

EXPLOSION. May react with reducers and combustible materials Hazardous gases will result from fire or detonation (nitrogen oxides and carbon oxide).

Hazardous decomposition product

Hazardous polymerisation : Will not occur

Incompatible materials : Keep separate from all organic materials, chemical sulphur, flammable liquids, chlorates,

permanganates, finely divided metals, charcoals, detonators and all aerosols, coke, cork or sawdust

11. Toxicological information

Eyes : Hazardous in case of contact with eyes – irritant
Skin : Hazardous in case of contact with skin – irritant

 Inhalation
 : Inhalation of dusts will produce irritation to respiratory track

 Ingestion
 : Ingestion will produce irritation to gastro-intestinal tract

Target organs : Blood
Acute toxicity : None known
Carcinogenic : None known
Mutagenicity : None known
Reproductive hazards : None known

12. Ecological information

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Mobility No data available Soil/water partition coefficient No data available Persistence/degradability Biodegradable Bio accumulative potential Not expected

13. Disposal considerations

Methods of disposal Disposal should be in accordance with the current applicable explosive legislation. Do not flush into

natural water systems.

Packaging must be disposed of by burning, as per applicable explosive regulations

Waste classification Hazardous chemical waste

14. Transport information

Regulatory information	UN Number	Name and description	Class	Additional information
ADR/RID Class	0082	EXPLOSIVE, BLASTING, TYPE B	1.1D	Limited quantity LQ0
				CEFIC Tremcard
ADN Class	0082	EXPLOSIVE, BLASTING, TYPE B	1.1D	
IMDG Class	0082	EXPLOSIVE, BLASTING, TYPE B	1.1D	Emergency schedules (EMS) F-B, S-X
				Remarks Packaging instructions: P131
IATA-DGR Class	0082	EXPLOSIVE, BLASTING, TYPE B	1.1D	AIR: Product may not be transported by Air. RAIL: Applicable Hazchem and specific requirements of the relevant transport authority. Both Rail and Road must comply with: Hazardous Substance Act No 15 of 1973 and the OHSAct specifically the Regulations for Hazardous Chemical Substances SEA: As per UN recommendation and the International Maritime Code.

15. Regulatory Information

EU Regulation Hazard symbols

Indicator of Danger:

Risk phrases R2 – Risk of explosion by shock, friction, fire or other source of ignition

R40 - Limited evidence of a carcinogenic effect

R8 - Contact with combustible material may cause fire

R22 - Harmful if swallowed

R36/38 - Irritating to eyes and skin Safety phrases

S34 – Avoid shock and friction

S16 – Keep away from sources of ignition

\$24/25 - Avoid contact with skin and eyes

Product use Classification and labeling have been performed according to EU directives 67/548/EEC,

1999/45/EC including amendments and the intended use.

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16. Other informatio	n	
Full text of R-Phrases with no:	R2	Risk of explosion by shock, friction, fire or another source of ignition
	R3	Extreme risk of explosion by shock, friction, fire or other sources of ignition
	R5	Heating may cause an explosion
	R8	Contact with combustible material may cause fire
	R9	Explosive when mixed with combustible material
	R10	Flammable
	S15	Keep away from heat
	S17	Keep away from combustibles
	R61	May cause harm to the unborn child
	R62	Possible risk of impaired fertility
	R20/22	Harmful by inhalation and if swallowed
	R22	Harmful if swallowed
	R36/38	Irritating to eyes and skin
	R33	Danger of cumulative effects
	R40	Limited evidence of carcinogenic effect
	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

History

Date of printing	: 16-08-2024
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Date of previous issue	: 19-08-2022

Recommended by Authorised by Kady Govender – R&D Laboratory Supervisor Myra Coetzer- Acting R&D Laboratory Manager

Remarks:
This SDS summarizes, at the date of issue, our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle the product in the workplace. As **BME** cannot control the use and handling of the product, each user must review the SDS in the context of how the user intends to handle and use the product in the workplace.