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Document Type:

Material Safety Data Sheet

Conforms to ISO 11014-1 and 91/155/EEC

Title:

PANEX

1. Identification of the product and Company Identification

Product Name	PANEX	Manufactured/ supplied by
Product use	Underground and surface blasting operations	BME A division of the Omnia Group (Pty) Ltd P.O. Box 70040 Bryanston South Africa 2021 Tel: 27 11 7098791 Fax:27 11 4633023
Synonyms	ANFO	
Chemical Formula	Not applicable	
Emergency telephone number	+27 11 706-3398	

2. Composition/information on ingredients

Substance/preparation: Preparation

Chemical name* Europe Ammonium Nitrate Fuel additive	CAS No 6484-52-2	% > 90 < 10	EC Number 229-347-8	Classification O; R8 Xi; R36/38 Carc. Cat. 3; R40
*See Section 16 for the full text of the R Phrases declared above				

3. Hazards identification

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

Classification E; R2,

O; R8,

Carc. Cat. 3; R40 Xi; R36/36

Additional hazards: None identified

Effects and symptomsAggravating conditions
Hazardous in case of skin contact (irritant), in case of eye contact (irritant) of inhalation
Repeated or continues exposure to any toxic substance may produce general

deterioration of health by accumulation in human organs

See toxicological information (section 11)

4. First aid measures

First aid measures

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

additional remark

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

attention

Eye 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 remark

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5. Fire-fighting measures

Extinguishing media

Suitable : DO NOT fight fire when it reaches material

Not suitable : No additional remark
Unusual fire/explosion hazards : Explodes when heated

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

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

8. Exposure controls/personal protection

	-	To a trade process and the second sec
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
riygiono moasaros		vident hards after harding compounds and before eating, emoking, along ablation racinities and at
		the end of the day

Occupational exposure limits:

Occupational exposure limits.				
Ingredient name	Occupational exposure limits			
Not applicable				

Recommended monitoring

procedures : No additional information

Personal protective equipment

Respiratory system : Approved or certified dust respirator

Skin and body : Overalls recommended

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

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

Solubility – Solvent : Water Solubility - Coefficient : Not available

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pH : Not available

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

Fire hazards in presence of : Not applicable

various substances

Auto-ignition temperature : Not available (May explode at temperatures > 100 degrees C)

Viscosity : Not available Neurotoxicity : Not available

10. Stability and reactivity

Stability : The product is stable

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

EXPLOSION. May react with reducers and combustible materials

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

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

 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

Transport Regulations

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.

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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 S34 – Avoid shock and friction

S16 – Keep away from sources of ignition S24/25 – 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.

16. Other information

Safety phrases

Full text of R-Phrases with no:

R2	Risk of explosion by shock, friction, fire or other 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

Text of classifications: Appearing in Section 2

E – Explosives
O – Oxidising
F - Highly flammable
Repr. Cat. 1 – Toxic for reproduction Category 1
Repr. Cat. 3 – Toxic for reproduction Category 3
Xn – Harmful
Xi – Irritant
N – Dangerous for the environment

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Recommended by : D Voogt – production manager

Authorised by : D Mynhardt – production and technical director

Remarks

This MSDS 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 MSDS in the context of how the user intends to handle and use the product in the workplace.