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🚣 bme

Document Type:

Safety Data Sheet

Conforms to ISO 11014:2009

Title:

INNOPAKTM

1. Identification of the product and Company Identification

Product Name	INNOPAK™	Manufactured/ supplied by	
Product use	Cartridge sensitized emulsion	BME	
Synonyms	INNOPAK Plus [™] , INNOPAK Super [™] , INNOPAK Super Plus [™]	A division of Omnia Group (Pty) Ltd Physical address	
Chemical Formula	Not applicable	Omnia Holdings, Building H	
Emergency telephone number	(+27) 11 706 3398	Monte Circle Business Park	
QR code		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	

2. Hazards identification

This substance is classified as dangerous according to Directive 67/548/EEC and its amendments

GHS Classification:

Exp. 1

H201 Explosive; mass explosion hazard.

Exp. 1.

Skin Irrit. 2: H315 Causes skin irritation.

Eye Irritation 2A: H319 Causes serious eye irritation

Acute Tox. 5: H303 May be harmful if swallowed.

H333 May be harmful if inhaled.

GHS precautionary Statements:

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

Keep wetted.

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.

Additional hazards: Risk of explosion by shock, friction, fire or other sources of ignition.

Keep away from ignition sources - No smoking.

Effects and symptoms: Hazardous in case of skin contact (irritant), eye contact (irritant), and inhalation. Slightly hazardous in

case of ingestion.

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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3. Composition/information on ingredients

Substance/preparation:

Substance/preparation.				
Chemical name Ammonium Nitrate	CAS No 6484-52-2	% > 60	EC Number 229-347-8	GHS Classification Ox. Liq. 2 H272 Skin Irrit. 2, H315 Eye Irritation 2A, H319 Acute Tox. 5, H303 Acute Tox. 5, H333
Sodium Nitrate	7631-99-4	>10		Ox. Sol. 2 H272 Eye Irritation 2A, H319 Acute Tox. 5, H303
Aluminum	7429-90-5	<10	231-072-3	Pyr. Sol. 1, H250 Water-react. 2, H261

The balance of the mass of explosives product consists of water, inert plastics and metals

4. First aid measures

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

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 : In case 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.

Check for and remove any contact lenses. In case of contact immediately flush eyes with plenty of water Eye contact : for at least 20 minutes. Cold water may be used. Get medical attention.

for at least 20 minutes. Cold water may be used. Get medical attention. No specific treatment, treat symptomatically.

Note to physician : No additional remarks.

Protection of first aiders : No additional remarks

5. Fire-fighting measures

Extinguishing media

Suitable : DO NOT fight fire when it reaches material

Not suitable : No additional remarks.

Unusual fire/explosion hazards : Hazardous gases will result from fire or detonation (nitrogen oxides and carbon oxide).

Special firefighting procedures : 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. Avoid all ignition sources.

6. Accidental release measures

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

of all unprotected personnel.

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.

^{*}Occupational exposure limit(s) if available, are listed in section 8

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7. Handling and storage

Handling Handle with care. Do not subject the material to impact, friction and ignition sources. 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. 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

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

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

end of the day.

Occupational exposure limits:

Ingredient name Occupational exposure limits

No additional information No additional information

Recommended monitoring

procedures Personal protective equipment

No additional information

Respiratory system

Skin and body Overalls & safety shoes

Hands Gloves

Eyes Eye protection

Physical and chemical properties

Physical state Enclosed plastic elongated cartridge with clipped ends, containing emulsion.

Colour Cream colour - gray colour if product contains aluminium.

Odour Hydrocarbon (slight) **Odour threshold** Not available **Boiling point** No data available Melting point Not applicable Flash point Not available

Flammability Only flammable in contact with other combustibles

Density 1 - 1.2 g/mlVapour Density Not available Vapour pressure Not available **Evaporation rate** Not available Solubility - Water Solubility - Solvent Insoluble

Partially soluble in light hydrocarbon fuels

Solubility - Coefficient Not available Not applicable

Fire hazards in presence of

various substances

Contact with combustible material may cause fire

Auto-ignition temperature Not available

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

Viscosity Not available Neurotoxicity Not available

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10. Stability and reactivity

Stability : The product is stable. Avoid ignition sources, static electricity discharge and friction. Avoid contact with

other chemicals.

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

11. Toxicological information

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

Ingestion : Ingestion will produce irritation to gastro-intestinal tract

Target organs : Blood, respiratory tract, skin, eyes

Acute toxicity : None known
Carcinogenic : None known
Mutagenicity : None known
Reproductive hazards : None known

12. Ecological information

Mobility:No data availableSoil/water partition coefficient:No data availablePersistence/degradability:BiodegradableBio 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

Destruction: The preferred method of destruction of emulsion explosives is by burning in a licensed facility. It is

strongly recommended to contact the supplier for destruction arrangements, at the supplier's licensed facilities. Should the user have access to a licensed burning facility, the supplier should be contacted

for approved procedures for destruction via burning.

Regulatory information	UN Number	Name and description	Class	Additional information
ADR/RID Class	0241	EXPLOSIVE BLASTING	1.1D	Limited quantity LQ0 CEFIC Tremcard
ADN Class	0241	EXPLOSIVE BLASTING	1.1D	
IMDG Class	0241	EXPLOSIVE BLASTING	1.1D	Emergency schedules (EMS) F-B, S-X Remarks Packaging instructions: P131
IATA-DGR Class	0241	EXPLOSIVE BLASTING	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

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EU Regulation Hazard symbols

Indicator of Danger:

Risk phrases : R2 – Risk of explosion by shock, fire or other sources of ignition

R8 - Contact with combustible material may cause fire

R36/38 - Irritating to eyes and skin

Safety phrases : S16 – Keep away from sources of ignition

S34 – Avoid shock and friction

: 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 Full text of R-Phrases with 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 R61 May cause harm to the unborn child R62 Possible risk of impaired fertility Harmful by inhalation and if swallowed R20/22 Harmful if swallowed R22 R36/38 Irritating to eyes and skin Danger of cumulative effects R33 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

History

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Recommended by : Kady.Govender – R&D Laboratory Supervisor
Authorized by : 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.