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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™,	A division of Omnia Group (Pty) Ltd
	INNOPAK Super Plus™	P.O. Box 70040
Chemical Formula	Not applicable	Bryanston
		South Africa 2021
Emergency telephone number	(+27) 11 706 3398	Tel: 27 11 7098791
		Fax:27 11 4633023

2. Composition/information on ingredients

Substance/preparation:

Chemical name* Europe Ammonium Nitrate	CAS No 6484-52-2	% > 60	EC Number 229-347-8	Classification O; R8 Xi; R36/38
Aluminium	7429-90-5	<10	231-072-3	F: R15 R10 O:R8 Xn: R22 Xi: R36/38
*See Section 16 for the full text of the R Phrases declared above				

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

3. Hazards identification

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

Classification E: R2,

O:R8, Xi: R36/38

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)

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 : 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.

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

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4. First aid measures Continued:

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-aidersNo 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 fire fighting 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.

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 : 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 remarks.

8. Exposure controls/personal protection

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
Personal protective equipment

No additional information

ersonal protective equipment

Respiratory system : None

Skin and body : Overalls & safety shoes

Hands : Gloves Eyes : Eye protection DOCUMENT NO: SDS.BME-3 ISSUE DATE: 18-03-2020 REVISION DATE: 18-03-2022 PAGE NO: 3 of 5 REVISION: 13

9. Physical and chemical properties

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

Cream colour - gray colour if product contains aluminium. Colour

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

Flammability Only flammable in contact with other combustibles

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

Partially soluble in light hydrocarbon fuels

Solubility - Solvent Solubility - Coefficient Not available На Not applicable

Fire hazards in presence of

various substances

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

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

Contact with combustible material may cause fire

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

Hazardous in case of contact with eyes - irritant Eyes 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 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

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.

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14. Transport information

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

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

no:

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 R20/22 Harmful by inhalation and if swallowed

R22 Harmful if swallowed
R36/38 Irritating to eyes and skin
Danger of cumulative effects

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 : C Oussoren – LAB Supervisor

Authorised by : DH Voogt – General Manager – Production and Logistics

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.