



MATERIAL SAFETY DATA SHEET

Prepared in accordance with Regulation 6 of CHIP 2, implementing Directive 91/55/EEC

1) IDENTIFICATION OF SUBSTANCE: FLEXIBLE DIAMOND SHEET NICKEL BONDED,
ALL CONVERSIONS

MANUFACTURER/SUPPLIER: KGS Diamond International
Industriestraat 2
NL 8081 HG Elburg
The Netherlands

EMERGENCY INFORMATION: Call during regular office hours
KGS Diamond International
0031 525 683300

2) INFORMATION ON INGREDIENTS:

<u>SUBSTANCE DESCRIPTION</u>	<u>CAS #</u>	
Nickel	7440-02-0	
Diamond	7782-40-3	
Nickel metallised polyester mesh	N/A	
Polyurethane adhesive	N/A	
Woven nylon coloured backing	32131-17-2	}
optional		
Polycotton	N/A	} optional
Polyethylene foam	N/A	} optional
Fibre board	N/A	} optional
Pressure sensitive adhesive	N/A	}
optional		

CHEMICAL CHARACTERISATION: CAS number not applicable.

3) HAZARDS I.D.

HAZARD DESIGNATION: Nickel is a category 3 Carcinogen
Possible risk of irreversible side effects.
R40
May cause sensitisation by skin contact. R43
Do not breathe dust. S22
Wear suitable protective clothing. S36

INFORMATION RELEVANT TO PARTICULAR
DANGERS FOR MAN & ENVIRONMENT:

When used as directed and intended it is not expected that exposure of a hazardous nature at ambient temperature will be created. As supplied this product cannot be inhaled. User operations may however generate inhalable dusts.

4) FIRST AID MEASURES:

GENERAL INFORMATION: If irritation or other symptoms occur see a Doctor and present this MSDS

AFTER INHALATION: No specific first aid required.

AFTER SKIN CONTACT: Wash thoroughly with water. For rashes seek medical advice and present this MSDS.

AFTER EYE CONTACT: Treat as any foreign particulate matter

AFTER INGESTION: No problems recognised. Nickel metal has a low oral toxicity.

5) FIRE FIGHTING MEASURES

EXTINGUISHING AGENTS: Water, dry chemicals, air foams.

UNSUITABLE EXTINGUISHING AGENTS: Carbon dioxide is not generally recommended as a lack of cooling capacity may result in reignition.

SPECIAL HAZARDS CAUSED:
BY THE MATERIAL: All optional backings can burn. Irritating or toxic substances may be emitted upon combustion, burning or decomposition.

SELF PROTECTIVE EQUIPMENT
FOR FIREFIGHTERS: Wear self-contained breathing apparatus equipped with full facepiece and operating at positive pressure mode and protective clothing. Personnel not wearing suitable respiratory protection must leave the area to prevent significant exposure to irritant causes from combustion, burning or decomposition.

ADDITIONAL INFORMATION: None

6) ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Not necessary if used as directed.

ENVIRONMENTAL PRECAUTION: Do not sweep or flush into sewers or waterways. Observe local regulations.

MEASURES FOR CLEANING/
COLLECTING: Pick up material mechanically for reuse or proper disposal.

7) HANDLING & STORAGE

HANDLING: No special measures necessary

SAFE HANDLING ADVICE: None applicable when used as directed/intended

INFORMATION ABOUT PROTECTION

AGAINST FIRES & EXPLOSIONS: Protect product from flames of any kind and maintain proper clearance when using heat devices. Store flammable liquids away from this product.

STORAGE: Avoid excessive heat. Do not store near inflammable agents.

8) EXPOSURE CONTROLS & PERSONAL PROTECTION

EXPOSURE CONTROLS: As supplied this product does not pose a health hazard due to inhalation. Ventilation may be required if user operations change it to other physical forms. Avoid prolonged skin contact, wear suitable gloves, wash skin thoroughly after handling and before eating, drinking or smoking. Launder clothing and gloves as needed.

9) PHYSICAL & CHEMICAL PROPERTIES

Form Solid
Colour Metal on diamond face, gaps between diamond pellets may be colour coded. Reverse colour coded with QRS and foam, white with other conversions
Odour None

CHANGE IN CONDITION

Melting Point/Melting Range Not applicable
Boiling Point/Boiling Range Not applicable
Flash Point Not applicable
Inflammability Optional backings are inflammable
Ignition Temperature Not available
Self Inflammability Not available
Danger of Explosion Material is not explosive
Density @ 20°C 2.25grams/cm³
Solubility in Water Insoluble
'pH Value Not applicable
Viscosity Not applicable

10) STABILITY & REACTIVITY

THERMAL DECOMPOSITION/

CONDITIONS TO BE AVOIDED: Not applicable when used as directed/intended
Avoid excessive heat.

MATERIALS TO BE AVOIDED: None known.

DANGEROUS PRODUCTS OF DECOMPOSITION:

Not applicable when used as directed/intended. Potential decomposition gases have not been fully determined.

11) TOXICOLOGICAL INFORMATION

NICKEL INGESTION: The US National Institute for Occupational Safety and Health (NIOSH) concluded that there is no evidence that nickel is carcinogenic. There is no statistical evidence of lung cancer in nickel using industries.

PRIMARY IRRITANT EFFECT: Nickel metal is a potent skin sensitiser. Repeated prolonged and intimate contact may cause nickel sensitivity resulting in skin allergy.

PRE-EXISTING CONDITIONS: Sensitised individuals may experience an allergic skin rash and/or asthma. Persons with a known history of nickel dermatitis or asthma should avoid contact. Persons with a history of eczema should be warned of the risks of exacerbation from contact with nickel.

12) ECOLOGICAL INFORMATION

INFORMATION ABOUT ELIMINATION: Not biologically degradable.

BAHAVIOUR IN ENVIRONMENTAL SYSTEMS: Bioaccumulation unlikely.

GENERAL NOTES: Generally not hazardous for water.

13) DISPOSAL CONSIDERATIONS

RECOMMENDATIONS: Dispose of waste in certified landfill in accordance with local regulations and available facilities.
Do not dispose of by incineration.
National or regional controls relating to disposal may apply.

14) TRANSPORT INFORMATION

LAND TRANSPORT ADR/RID (CROSS BORDER)
ADR/RID-GGCS/E CLASS: Not applicable

NUMBER/LETTER: Not applicable

MARITIME TRANSPORT IMDG
IMDG CLASS: Not applicable

UN NUMBER: Not applicable

MARINE POLLUTANT: Not a marine pollutant

AIR TRANSPORT ICAO-T & IATA-DGR
ICAO/IATA CLASS: Not applicable

UN/ID NUMBER: Not applicable

COMMENT:

Not a dangerous cargo

15) REGULATORY INFORMATION

DESIGNATION ACCORDING TO EC
GUIDELINES:

Nickel metal is classified as a Category 3 carcinogen " a substance which causes concern for man owing to the possible carcinogenic effect but in respect of which the available information is not adequate for making a satisfactory assessment, by the EU in Directive 67/548/EEC, and as such the following risk and safety phrases are applicable.

Xn; Harmful Category 3 carcinogen
Possible risk of irreversible side effects.

R40

May cause sensitisation by skin contact.

R43

Do not breathe dust. S22

Wear suitable protective clothing. S36

16) OTHER INFORMATION

The above information is based on our present knowledge and is taken from sources believed to be accurate at publication date, and shall not constitute a guarantee for any specific material features. KGS makes no warranty with respect to the accuracy and assumes no liability to any user of the product described.

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