



NICKEL GRAPHITE FILLED CONDUCTIVE SHIELDSEAL 3991

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Detail : 3991 Nickel graphite filled conductive, 1-component sealing
 Color: Grey
 Chemical family: Nickel coated graphite filled silicone adhesive
 Chemical name: Polysiloxane compound
 Manufacturer / supplier: Holland Shielding Systems B.V.
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2. HAZARDS IDENTIFICATION

Classification of material	Nickel coated graphite filled silicone adhesive
Signal word	Warning
Hazard statement(s)	May be harmful if swallowed May be harmful in contact with skin
Symbol(s)	
Precaution(s)	
General	Not applicable
Prevention	Obtain special instructions before use Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required
Response	If exposed or concerned: get medical attention
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	P501 dispose of contents and container in accordance with all local, regional, National and international regulations
Other hazard	None known
Unknown toxicity ingredients	None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name: polysiloxane compound
 Common name: 3991

cas number and other identifiers:

Hazardous components	CAS reg No.	Approx. wt. %
Nickel	7440-02-0	30-40
Graphite	7440-44-0	25-35
Methyltrimethoxysilane	1185-55-3	1-3
Mineral spirits	8052-41-3	3-7
Methanol	67-56-1	0.1-1
Non-hazardous components	CAS reg No.	Approx. wt. %
DIMETHYLPOLYSILOXANE	70131-67-8	15-25
TREATED SILICA	68937-51-9	1-2
POLYDIMETHYLSILOXANE	63148-62-9	2-5

Impurities and stabilizing additives: none
 for mixtures, in addition:
 chemical name(s): none
 concentration(s) range(s) (if at a concentration that is a health hazard): none

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4. FIRST AID MEASURES

Necessary measures	Eyes: rinse with plenty of water for 15 minutes Skin: wash well with soap and water Ingestion: drink a glass of water or milk and seek medical attention Inhalation: remove to fresh air
Symptoms, acute and delayed	Eyes: may cause mild eye irritation Skin: may cause mild irritation Ingestion: may be harmful if swallowed Inhalation: none known
Indication of medical attention and treatment needed	Eyes: irritation occurs Skin: irritation occurs Ingestion: irritation occurs Inhalation: irritation occurs
Notes to physician	None

5. FIRE-FIGHTING MEASURES

Suitable extinguishing material(s)	Foam, co ² dry powder or water fog.
Unsuitable extinguishing material(s)	None known
Nature of hazardous combustion product	Carbon monoxide Carbon dioxide Silicon dioxide Formaldehyde Methanol
Special protective equipment and precautions	Wear self-contained breathing apparatus and full protective equipment.
Other specific hazards	None
SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS	WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT
OTHER SPECIFIC HAZARDS	NONE

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	General cleanliness
Protective equipment	None
Emergency procedures	None. Clean area
Methods and materials for contamination and clean up	- Scrape, sweep, or gather up material and put in a container for disposal. - Bury in a licensed landfill in accordance with federal, state and local regulations.

7. HANDLING AND STORAGE

	Precautions for safe handling	
Respiratory protection	None	
Eyes and face	Safety glasses	
Gloves	Cloth or rubber gloves	
Engineering controls	None	
Conditions for safe storage	Store at ambient temperatures, preferably 65°- 85°f	
Incompatibilities	None	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA permissible exposure limit		
Component	type	value
Nickel	PEL	0.5 mg/m ³
Graphite	PEL	4.0 mg/m ³
Methanol	PEL	200 ppm
Mineral spirits	ACGIH TLV	200 mg/m ³
Methyltrimethoxysilane	TWA	50 ppm



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Engineering controls	Exhaust ventilation during cure.
	Individual protection measures, equipment
Eyes and face	Safety glasses
Respiratory protection	None
Gloves	Cloth or rubber

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Black paste
Odor	Alcohol
Odor threshold	Not available
Ph	Not available
Melting point	Not available
Initial boiling point	Not available
Freezing point	Not available
Boiling range	Not available
Flash point	Not available
Evaporation rate	<1
flammability (solid, gas)	Not available
Upper flammability limit	Not available
Lower flammability limit	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	~2000
Solubility(ies)	Insoluble in water. Somewhat soluble in toluene
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available

10. STABILITY AND REACTIVITY

Reactivity	Low
Chemical stability	High
Stabilizers present	None
Possibility of hazardous reactions	Low
Conditions to avoid (static, vibration)	None
Incompatible materials	None
Hazardous decomposition products	None
Visual evidence of decomposition	None

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Not available
Chronic toxicity	Not available
Irritation/corrosion	Not available
Sensitizer	Not available
Mutagenicity	Not available
Information about carcinogenicity	Contains material which can cause cancer. risk of cancer depends on duration and level of exposure
Classification	Nickel acgih-a5, iarc-2b, ntp-reasonably anticipated to be a human carcinogen

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12. ECOLOGICAL INFORMATION

Eco toxicity	None known
Persistence and degradability	Unknown
Bio accumulative potential	Unknown
Mobility in soil	Unknown
Other hazards	None known

13. DISPOSAL CONSIDERATIONS

Waste residues	None known
Safe methods of disposal	Bury in licensed landfill in accordance with federal, state and local regulations.

This product as solid is not a hazardous waste according to 40 cfr 261. Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

UN number	None
UN proper shipping nameS	None
CFR	None
TDG	None
IATA	None
Transport hazard classes	Not dot regulated
HMIS	FLAMMABILITY 1 REACTIVITY 0 HEALTH 2
NFPA	FLAMMABILITY 1 REACTIVITY 0 HEALTH 2
Packing group	Not dot regulated
Enviornmental hazards	None known
Transport in bulk	None
Special precautions	None

15. REGULATORY INFORMATION

Health and safety regulations:

None

16. OTHER INFORMATION

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is made.

	Key
C	Ceiling limit
EST	Estimated
NA	Not applicable
NE	None established
ND	None determined
R	Recommended
NEGL	Negligible
NF	None found
UNKN	Unknown
REC	Recommended
V	Recommended by vendor
SKN	Skin
TS	Trade secret