

1 – IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Name: ICP 925

Revision: 12 November 2012

N° de FDS 0367-5

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Company:

Calvo Sealing, S.L.
Calle Galileo, nº 8 (P. I. Can Estella)
08635 San Esteve de Sesrovires
Barcelona - Spain
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Supplier:

Use:

Braided packing manufactured from high quality expanded graphite ribbons with a low chloride content, treated with special corrosion inhibitors. High performance pump and valve packing for high temperature and pressure application above 430°C (806°F) and pH 0-14. Suitable for a wide range of applications as petrochemical plants, chemical and process plants, power plants, refineries, boilers, etc.

2 – HAZARDS IDENTIFICATION

None expected in industrial use.

3 - COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	% wt	CAS n°	EC n°	Symbol	R-Phrases
Graphite	90-99	7782-42-5	231-955-3	-	-

4 – FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, administer artificial respiration. Contact physician.

Skin contact: Wash skin with soap and water. Contact physician if irritation persists.

Eye Contact: Flush eyes for at least 15 minutes with large amounts of water. Contact with physician if irritation persists.

Ingestion: Not applicable

Advice to physician: Treat symptoms

5 – FIRE-FIGHTING MEASURES

Extinguishing Methods: Carbon Dioxide, dry chemical, foam or water.

Unusual Fire and Explosion Hazards: None

Special Fire Fighting Measures: None

HAZCHEM Emergency Action Code: 1 Z

6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Utilize exposure controls and personal protection as specified in Section 8.

Environmental Precautions: No special requirements.

Methods of Clean Up: No special required. Nontoxic.

7 – HANDLING AND STORAGE

Handling: Accumulations of graphite may cause shorting of electrical circuits. Avoid excessive creation and inhalation of dust during removal, drilling, grinding, cutting and sanding.

Storage: Store in cool, dry area.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous Ingredients	OSHA		ACGIH TLV		AUSTRALIA (LPP)	
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Graphite	(total)	15	(resp)	2	(resp)	3
	(resp)	5				

Respiratory Protection: Not normally needed. If exposure limit is exceeded, use approved dust respirator.

Ventilation: No special requirements.

Protective Gloves: Not normally needed.

Eye Protection: Recommended safety glasses.

Other: None

9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid	Odour	Odorless
Colour	Black	Vapour pressure at 20°C	None
Initial boiling point	Not applicable	% aromatics by weight	None
Melting point	Not applicable	pH	Not applicable
% volatile (by volume)	Not applicable	Weight per volume	Not applicable
Flash point	Not applicable	Density	Not applicable
Method	None	Coefficient (water/oil)	Not applicable
Viscosity	Not applicable	Vapour density (air =1)	Not applicable
Autoignition temp.	Not applicable	Rate of evaporation (ether =1)	Not applicable
Explosion limits	Not applicable	Solubility in water	Insoluble

10 – STABILITY AND REACTIVITY

Stability: Stable

Hazardous polymerization: Will not occur.

Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide, Sulfur Dioxide and other toxic fumes.

Conditions to avoid: Temperatures above 650°C (1200°F).

Materials to avoid: Strong oxidizers like liquid Chlorine and concentrated Oxygen.

11 – TOXICOLOGICAL INFORMATION

Primary Route of Exposure Under: Inhalation, skin and eye contact. Personnel with pre-existing chronic respiratory impairments may be aggravated by exposure.

Acute Effects: Graphite dust may cause mechanical irritation to the skin, eyes and nasal passages.

Chronic effects: Repeated inhalation of nuisance dust in excess of exposure limits over an extended period of time may result in injury to the lungs.

Other information: As per 29 CFR 1910.1200 (Hazard Communication), this product contains no carcinogens as listed in the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or the Occupational Safety and Health Administration (OSHA).

12 – ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. The information given below is based on a knowledge of the components and the ecotoxicology of similar substances.

Mobility: Solid. Insoluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9).

Degradability: Graphite: inorganic substance, exists in nature.

Accumulation: Not determined

Ecotoxicity: Not determined

13 – DISPOSAL CONSIDERATIONS

Unused product is not a regulated waste. Check local, state and national/federal regulations and company with the most stringent requirement. This product is not classified as a hazardous waste according to 91/689/EEC.

EWC Code: 06 13 99

14 – TRANSPORT INFORMATION

TDG:	Nonhazardous, not regulated
IMDG:	Nonhazardous, not regulated
IATA/ICAO:	Nonhazardous, not regulated
ADR/RID:	Nonhazardous, not regulated

15 – REGULATORY INFORMATION

<u>European Classification:</u>	None
<u>R - Phrase(s):</u>	-
<u>S-Phrase(s):</u>	-
<u>Precautionary and First Aid Measure(s):</u>	-
<u>Other information:</u>	None

16- OTHER INFORMATION

US EPA SARA TITLE III	Hazardous Materials Identification System (HMIS)										
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> 312 Hazards Immediate Delayed </td> <td style="width: 50%; vertical-align: top;"> 313 Chemicals: none </td> </tr> </table>	312 Hazards Immediate Delayed	313 Chemicals: none	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">HEALTH</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: center;">FLAMMABILITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: center;">REACTIVITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: center;">Personal Protection</td> <td style="text-align: center;">*</td> </tr> </table> <p style="font-size: small; margin-top: 5px;"> 4= Severe Hazard 3= Serious Hazard 2= Moderate Hazard 1= Slight Hazard 0= Minimal Hazard c = See Section 8 </p>	HEALTH	0	FLAMMABILITY	0	REACTIVITY	0	Personal Protection	*
312 Hazards Immediate Delayed	313 Chemicals: none										
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REACTIVITY	0										
Personal Protection	*										
Risk phrases in section 3: None											
Changes to the MSDS in this revision: Section 1, 8, 11, 12 and 13											
This information is based solely on data provided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied regarding the suitability of the product for the user's particular purpose. The user must make their own determination as to suitability.											