

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

Product Name: ICP 912

Revision: 12 November 2012

N° de FDS 1289-3

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Company:

Calvo Sealing, S.L.
Calle Galileo, nº 8 (P. I. Can Estella)
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Supplier:

Use:

Braided packing manufactured from high quality carbon fiber yarn with PTFE and graphite lubricant. Carbon and graphite combination provides an excellent pump sealing at high pressures and temperatures above 430°C (806°F) and pH 0-14. An exceptional packing for use in static and dynamic applications, as well as steam and gas installations.

2 – HAZARDS IDENTIFICATION

None expected in industrial use. PTFE is non toxic at ambient temperatures. At temperatures above 260°C (500°F), toxic decomposition products may be emitted. Due to toxic decomposition, avoid smoking when handling PTFE products. Wash hands to avoid transfer to tobacco products.

3 - COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	% wt	CAS n°	EC n°	Symbol	R-Phrases
Graphite / Carbon	75-85	7782-42-5	231-955-3	-	-

4 – FIRST AID MEASURES

Inhalation: If overcome by decomposition fumes, 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 spray.

Unusual Fire and Explosion Hazards: Toxic fumes may be emitted at temperatures above 260°C (500°F).

Special Fire Fighting Measures: Recommended Firefighters wear self-contained breathing apparatus.

HAZCHEM Emergency Action Code: 2 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: Do not smoke when handling PTFE products. Wash hands after handling to avoid transfer to tobacco products.

Storage: Store in cool, dry area.

MATERIAL SAFETY DATA SHEET *in accordance with 1907/2006/CE*

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	15 mppcf	(resp)	(resp)	2	(resp)	3

Respiratory Protection: Not normally needed.

Ventilation: No special requirements. If exposure limits are exceed, provide adequate ventilation.

Protective Gloves: Not normally needed.

Eye Protection: Not normally needed.

Other: None

9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid	Odour	Odorless
Colour	Black	Vapour pressure at 20°C	None
Initial bolting point	Not applicable	% aromatics by weight	None
Melting point	Not determined	pH	Not determined
% volatile (by volume)	None	Weight per volume	Not applicable
Flash point	None	Density	Not applicable
Method	-	Coefficient (water/oil)	Not determined
Viscosity	Not applicable	Vapour density (air =1)	Not applicable
Autoignition temp.	Not determined	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, trace amounts of Hydrogen fluoride, Perfluorocarbon olefins and other toxic fumes may be evolved above 260°C (500°F).

Conditions to avoid: Extreme heat above 260°C (500°F).

Materials to avoid: Fluorine, Chlorine Trifluoride and related compounds and molten alkali metals.

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: PTFE is nontoxic at ambient temperatures. However, small quantities of toxic gases may be produced at temperatures above 260 °C (500°C), due to decomposition. Inhalation of these decomposition products may cause temporary flu-like symptoms. Graphite dust and carbon fibers 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. Symptoms can include cough, shortness of breath and decrease in pulmonary function.

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: PTFE: Material is chemically unreactive and nonbiodegradable.
Graphite / Carbon: inorganic substance, exists in nature.

Accumulation: Not determined

Ecotoxicity: Not determined

13 – DISPOSAL CONSIDERATIONS

Unused product is not a regulated waste. Dispose in accordance with local, state and federal regulations. Can be disposed in a secure, properly licensed landfill. Check local, state and national/federal regulations and comply with the most stringent requirement.

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

European Classification: none

R - Phrase(s): -

S-Phrase(s): -

Precautionary and First Aid Measure(s): -

Other information: none

16- OTHER INFORMATION

US EPA SARA TITLE III

312 Hazards

Immediate

313 Chemicals:

none

Hazardous Materials Identification System (HMIS)

4= Severe Hazard
 3= Serious Hazard
 2= Moderate Hazard
 1= Slight Hazard
 0= Minimal Hazard
 c = See Section 8

HEALTH	0
FLAMMABILITY	0
REACTIVITY	1
Personal Protection	*

Risk phrases in section 3: None

Changes to the MSDS in this revision: Section 1 and 12

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.