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

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

Product Name: ICP 914

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Company:

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Supplier:

Use:

Braided hybrid packing manufactured from combination of **GFO®** fiber yarn and "Twaron" aramid fiber yarn in the corner. Hybrid packing that combines the properties of GFO® and aramide, resulting in a excellent product for dynamic and static applications above 280ºC (536ºF) and pH 2-12. Suitable for a wide range of applications such as steel and shipbuilding industry, refineries, power plants, mines and quarries, paper & pulp industry, etc.

2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Black Fiber
During a fire, irritation and highly toxic gases may be generated

POTENTIAL HEALTH EFFECTS:
None anticipated under intended conditions of use.

ACUTE AND CHRONIC EFFECTS :

PTFE: Overheating (> 300ºC or 572ºF) the product may create thermal decomposition products that could result in irritation of the mucous membranes, eyes, skin, respiratory tract, or polymer fume fever. Polymer fume fever is a temporary flu-like illness with fever, chills, and sometimes cough, of pproximately 24-48 hours duration.

CARCINOGENICITY INFORMATION: The following substance is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen and is present at a concentration equal to or greater than 0.1%:

PTFE - IARC Group 3 (Unclassificable as to Carcinogenicity in Humans)

3- COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS nº	EC nº	% wt	TLV (ACGIH)	PEL (OSHA)
Graphite	7782-42-5	231-955-3	< 75	2 mg/m^3 TWA, Respirable Fraction	15 mg/m^3 TWA, Total Dust
					5 mg/m^3 TWA, Respirable Fraction
PTFE	9002-84-0		< 60	None Established*	None Established
Polydimethylsiloxane	63148-62-9		<50	None Established*	None Established
*Minimize Exposure to Polymer Decomposition Products.					

4 – FIRST- AID MEASURES

IInhalation: If exposed to fumes from overheating or combustion, move to fresh air, Consult a physician if symptoms persist.

Skin Contact: If melted polymer gets on skin, cool rapidily with cold water. Do not attempt to peel polymer from skin. Obtain medical attention immediately.

Eye Contact: Flush eyes with plenty of water. Consult medical personnel.

Ingestion: If material is ingested, seek medical attention.

5 – FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES:

Flash Point: Not determined

Flammable Limits: Not established

Fire and Explosive Hazards: During a fire, irritating and highly toxic gases may be present due to thermal decomposition.

extinguishing Media: Water, carbon dioxide, foam or dry chemical. Material does not burn without external flame. Use extinguishing media appropriate for the surrounding fire.

FIRE-FIGHTING EQUIPMENT/INSTRUCTIONS:

Wear Positive Pressure Self-Contained Breathing Apparatus (SCBA). Wear full protective equipment. The principal evolved gas when polymer is heated in air at 400°C (750°F) is carbonyl fluoride, COF_2. This compound then hydrolyzes to a significant extent in the 50% RH air to HF and CO_2. Hydrogen fluoride fumes can react with water to form hydrofluoric acid. Wear neoprene gloves when handling refuse from fire. Avoid breathing decomposition products.

6 – ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL:

Collect by sweeping or vacuum any loose material to prevent accumulation of product.

7 – HANDLING AND STORAGE

Handling:

The product is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable. Smoking tobacco or cigarettes contaminated with polymer particles may cause “polymer fume fever.”

Storage:

No special precautions necessary

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINERING CONTROLS:

Ventilation:
None required under normal conditions of use. Use local exhaust ventilation if material is overheated (over approximately 300ºC or 572ºF). Exhaust ventilation should be provided in accordance with guidelines in Industrial Ventilation by the American Conference of Governmental Industrial Hygienists.

PERSONAL PROTECTIVE EQUIPMENT:

Respirators:
Respiratory protection is not normally required under anticipated conditions of use. If respirators are necessary, wear NIOSH/MSHA approved respiratory protection.

Eye/face protection:
Wear safety glasses if handling presents a physical hazard of eye injury.

Protective Clothing:
None required unless necessary for protection from thermal burns.

9 –PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DATA:

APPEARANCE	Black Fiber
ODOR	None
SPECIFIC GRAVITY (H_20 = 1)	1.2
SOLUBILITY IN WATER	Insoluble

10 – STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable at normal temperatures and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: None reasonably foreseeable.

CONDITIONS TO AVOID: Avoid overheating this material. PTFE component, when heated above 300ºC (572ºF), can evolve toxic decomposition products which can cause polymer fume fever (See ACUTE AND CHRONIC HEALTH EFFECTS – Section 3). Trace amounts of hydrogen fluoride and carbonyl fluoride may be evolved at about 400ºC (750ºF), with larger amounts at higher temperatures.

HAZARDOUS DECOMPOSITION PRODUCTS: May form toxic materials including carbon monoxide, carbon dioxide, hydrogen fluoride, carbonyl fluoride, tetrafluoroethylene, hexafluoroproylene, perfluoroisobutylene,

HAZARDOUS POLYMERIZATION: Will not occur.

11 – TOXICOLOGICAL INFORMATION

Graphite: No data available.

PTFE: The compound is not a skin irritant. There are no reports of human sensitization. Effects in animals from single exposure by inhalation to high concentration of polymer dust include irritation of the lungs. Repeated oral doses resulted in no observable toxic effects except for alteration in the number of circulating white blood cells after long-term dosing 25% of diet for 90 days. Tests demonstrate no developmental toxicity in animals, and no genetic damage in animals or in bacterial cell cultures.

12 – ECOLOGICAL INFORMATION

It is unlikely that significant environmental exposure in the air or water will arise, based on consideration of the production and use of this product.

13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:
Dispose of waste in accordance with state, local, and Federal regulations. Incineration is the preferred method. To the best of our knowledge, this product does not meet the criteria of a hazardous waste under RCRA 40 CFR 261 if discarded in its purchased form. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

14 – TRANSPORT INFORMATION

TDG:	NONHAZARDOUS, NOT REGULATED
IMDG:	NONHAZARDOUS, NOT REGULATED
IATA/ICAO:	NONHAZARDOUS, NOT REGULATED

15 –REGULATORY INFORMATION

National regulations:
Appendix V, No. 7 of the Ordinance on Dangerous Chemicals (Gefahrstoffverordnung)
Announcement to authorities is required by law.

Labelling:
The product is not classified and hence needs no labelling

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