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404 rue de l'industrie - Z.A. Lanveur - F-56440 LANGUIDIC - Tel +33 2 97 65 10 89 - Fax +33 2 97 65 11 20

Revision Date: July 2020

MATERIAL SAFETY DATA SHEET

valid for the whole range of our cut or milled aramid fibres in accordance with regulation (EC) N°1907/2006 – REACH

1 - PRODUCT AND COMPANY IDENTIFICATION

para-Aramid (cut or milled aramid fibres) Product name

Relevant uses Injection moulding, thermosetting composite materials, heat

protective clothing, elastomer reinforcement, ballistic protection

Uses advised against None

APPLY CARBON S.A.S Company name

Address ZA Lanveur

> F-56440 LANGUIDIC France

Telephone number +33 2 97 65 10 89 Fax number +33 2 97 65 11 20

2 - HAZARDS IDENTIFICATION

Main product risks None (in solid form)

Specific risks Processing para-aramid products can generated microscopic

fibrous dust particles and lead to irritations. Prolonged inhalation of breathable dust at high concentration may cause

lung damage.

Product and its components ARE NOT CLASSIFIED AS DANGEROUS according to the decree of 07/12/2009 and regulations (EC) n°1272/2008 (CLP), 67/548/EEC or 1999/45/EC.

3 - COMPOSITION / COMPONENT INFORMATION

80-98% (w/w) Substance/preparation

Standard or chemical name poly-(paraphenylene-terephthalamide) (with traces of water and fiber finish)

CAS number 26125-61-1 ENCS/ISHL-number (7) - 2384GHS/CLP or hazard symbols Not applicable

R-phrase None

Substances of Very High Concern (SVHC) None or below 0.1%

None or below 0.1%

Absorbed water, Sodium phosphate, Fibre finishes (< 1.0%) Other components

4 - FIRST AID MEASURES

General advice Dust may be irritating to the respiratory tract and cause

symptoms of bronchitis.

Treat eye damage, cuts, burns, skin irritation and other skin lesions symptomatically - like other injuries of the same kind. Wash thoroughly with plenty of water. Get medical attention if

symptoms occur.

Inhalation (fine fibrous dust) Move subject into fresh air. Seek medical attention if symptoms

Ingestion Rinse mouth and drink water. No medical treatment required. 404 rue de l'industrie - Z.A. Lanveur - F-56440 LANGUIDIC - Tel +33 2 97 65 10 89 - Fax +33 2 97 65 11 20

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5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media

Specific hazards

All usual extinguishing products are allowed.

Not flammable or combustible under normal uses.

Do not inhale explosion or combustion vapors (carbon oxides, nitrogen oxides, volatile organic compounds, hydrogen cyanide).

Special protective equipment for

firefighters

Wear full-face, self-contained breathing apparatus to avoid

inhalation of fumes or decomposition products.

Specific methods None

6 - ACCIDENTAL RELEASE MEASURES

Individual precautions

Environmental precautions

Cleaning methods

None

Do not let product enter drains.

Avoid dust formation. Clean up with sweep or vacuum.

Use suitable containers for disposal.

7 - HANDLING AND STORAGE

Handling

Technical measures/precautions

Avoid prolonged or repeated skin and eyes contact.

Fiber dust and fly should be removed with approved industrial vacuum cleaning or ventilation. Compressed air cleaning increases airborne dust levels and must be avoided. Do not

touch moving threadlines.

Storage Store in a cool, dry and well-ventilated area. Keep away from

direct sunlight.

8 - EXPOSURE CONTROLS / INDIVIDUAL PROTECTION

Engineering measures:

Control parameters:

Hygiene measures:

Ensure adequate ventilation. Accumulation of static charges can cause explosions in solvent and dust laden atmospheres.

See local regulations. In their absence, it is recommended that the average concentration of respirable fiber-shaped particles (RFP's) derived from para-aramid products be maintained below

1 RFP/ml of work place air.

Personal protective equipment:

-Respiratory protection

Use appropriate certified respirator if control limits are exceeded and processing conditions require it (poor ventilation, fine dust

production). FFP2 recommended. Gloves and protective clothing.

-Skin protection Gloves and protective clothing.
-Eye protection Safety glasses with side shields.

Eat, drink and smoke in separate areas. Washing facilities and

safety showers must be available.

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no information available

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state solid

Form short fibers (filament)
Colour golden yellow

Odour none

Melting point/range does not melt

Decomposition temperature carbonization/pyrolysis start above 500°C

Solubility in water not soluble
Solubility in organic solvents not soluble

Solvent content none

pH/Boiling point/Evaporation

Relative density 1.44-1.45 g/cm³ (20 °C) Viscosity/Flash point/Auto-ignition no information available

Flammability not flammable or combustible

10 - STABILITY AND REACTIVITY

Stability
Conditions to avoid

Hazardous decomposition products

Para-aramid products are highly resistant to chemicals and heat. Strong acids/bases and temperatures over 932°F (500°C) will cause decomposition of the products.

Carbon dioxide, nitrogen oxides, hydrogen cyanide, hydrocarbons, anhydrous aldehydes, ammonia.

11 - TOXICOLOGICAL INFORMATION

Acute Toxicity LD50 > 7,500 mg/kg orally in the rat.

Sensitization None

Chronic Toxicity

A 2-years inhalation study with rats using specially prepared breathable fibrous dust did not result in any lung damage at 2.5 respirable fiber-shaped particles (RFP)/ml. The onsets of fibrotic changes in the lung were barely detectable at concentrations of

25 RFP/ml.

At extremely high concentrations (100 and 400 RFP/ml) the rats developed unequivocal signs of lung overloading and fibroses.

At these concentrations some of the female rats (but none of the males) also developed benign proliferative keratin (horn) cysts, in addition to fibroses, in the lung.

Human experience Respirable fiber-shaped particles of para-aramid can cause a

transitory, mild irritation of the skin, the mucosa or the eyes. There are no other known negative effects on human.

Not carcinogenic and not mutagenic (Group 3).

Target Organ effects Skin, Respiratory system.

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12 - ECOLOGICAL INFORMATION

Ecotoxicity No information available Mobility in soil No information available

Persistence and degradability Para-aramid products are stable, persistent and not

biodegradable.

Bioaccumulation No information available

13 - DISPOSAL CONSIDERATIONS

Waste disposal Aramid waste can be landfilled as non-hazardous industrial

solid waste or incinerated in an authorized industrial waste disposer. Do not flush into surface water or sanitary sewer

system. See local regulations.

Contaminated packaging No specific recommendations.

14 - TRANSPORT INFORMATION

Para-aramid products are **not classified as dangerous** in terms of national and international transport regulations – **no specific transport label required. No CLP-labeling (not applicable).**

15 - REGULATORY INFORMATION

These products are not submitted to regulations (EC) n°1272/2008 (CLP), 67/548/EEC and n°1999/45/EC, nor under PDSCL, PRTR or ISHL. It complies with TSCA and DSL regulations.

This MSDS has been established in accordance with REACH regulations (EC) N°1907/2006 and N°453/2010.

16 - OTHER INFORMATION

We believe that the information contained in this safety data sheet is correct to the best to our knowledge. However, the information contained in this sheet is not exhaustive. This safety data sheet does not anticipate all the circumstances in which the product may be used, nor all the physical and mental characteristics of each individual responsible for its transport or transformation. It is the duty of the user to test and use this product safely, in accordance with the laws and regulations in force. Unless otherwise stated in writing, we accept no responsibility for complaints or damage caused related to the use of this product. For all additional information, please contact the QSE Department of Apply Carbon.

Apply Carbon transforms ARAMID fibers only by cutting, at very various lengths, to meet the very large needs of its customers.

All the informations given in this Material Safety Data Sheet are excerpt from these of its aramid fibres suppliers.