

19 rue Jean Brito - F-56240 PLOUAY - FRANCE contact@apply-carbon.fr - Tel +33 (0) 2 97 65 10 89

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Revision Date: February 2024

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

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

Relevant uses Injection moulding, thermosetting composite materials, heat

protective clothing, elastomer reinforcement, ballistic protection

Uses advised against None

Company name APPLY CARBON S.A.S

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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 HAZARDOUS 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

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

Standard or chemical name poly-(paraphenylene-terephthalamide)

(with traces of water and fiber finish)

CAS number 26125-61-1 ENCS/ISHL-number (7)-2384

GHS/CLP or hazard symbols Not applicable

R-phrase None

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

CMR None or below 0.1%

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



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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

persist.

Ingestion Rinse mouth and drink water. No medical treatment required.

5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media All usual extinguishing products are allowed.

Specific hazards 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.



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

direct sunlight.

8 - EXPOSURE CONTROLS / INDIVIDUAL PROTECTION

Engineering measures: Ensure adequate ventilation. Accumulation of static charges can

cause explosions in solvent and dust laden atmospheres.

Control parameters: 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.

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

Hygiene measures: Eat, drink and smoke in separate areas. Washing facilities and

safety showers must be available.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state solid

short fibers (filament) Form

Colour golden yellow

Odour none

Melting point/range does not melt

Decomposition temperature carbonization/pyrolysis start above 500°C

not soluble Solubility in water Solubility in organic solvents not soluble

Solvent content none

pH/Boiling point/Evaporation no information available 1.44-1.45 g/cm³ (20 °C) Relative density Viscosity/Flash point/Auto-ignition no information available Flammability not flammable or combustible

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10 - STABILITY AND REACTIVITY

Stability Para-aramid products are highly resistant to chemicals and

heat.

Conditions to avoid Strong acids/bases and temperatures over 932°F (500°C) will

cause decomposition of the products.

Hazardous decomposition 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.

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



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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).**

Avoid temperature below $+5^{\circ}$ C or above $+50^{\circ}$ C and UV exposure.

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

They comply with TSCA (listed and active), EINECS and DSL regulations.

16 - OTHER INFORMATION

Finish is applied to most fibres and yarns as a processing aid. This finish and most overlay finishes, sizes, or waxes can be removed in an aqueous medium if this becomes necessary. The fibre manufacturer's recommendations for processing and use should be followed.

Do not use commercial grades of Para-Aramid fibres in medical applications involving permanent or temporary implantation in the human body or contact with internal body fluids or tissues.

The information given here is the best available on the date of issue. It relates only to the specific products referred to herein and may not be applicable to blended or processed product, nor does it constitute a contractual description of product properties.

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 information given in this Safety Data Sheet is excerpt from these of its aramid fibers suppliers.