

Safety Data Sheet of **Fiberlogy R NYLON** according to Regulation (EC) No. 830/2015 (REACH) in the current version.

Date: August 16, 2021

1. PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME:	R NYLON
TRADE NAME AND SYNONYMS:	Fiberlogy R NYLON
CHEMICAL FAMILY:	Polyamide (PA12)
COMPANY NAME:	Fiberlab S.A.
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2. HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

According to Regulation (EC) No 1272/2008 [CLP]: No need for classification according to GHS criteria for this product.

2.2. LABEL ELEMENTS

According to Regulation (EC) No 1272/2008 [CLP]: The product does not require a hazard warning label in accordance with GHS criteria.

2.3. OTHER HAZARDS

vPvB/PBT assessment: not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. SUBSTANCES

Not applicable

3.2. MIXTURES

Polyamide 12 (various varieties). Presence of additives. Presence of stabilizers to prevent thermal oxidation and oxidation induced by sunlight (weather effect). Possible presence: soot.

3.3. ADDITIONAL INFORMATIONS

mixture does not contain substances that meet the criteria set out in section 3.2 of Annex II of the REACH Regulation.

4. FIRST-AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

Inhalation: Move exposed person to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. Consult a physician after significant exposure.

Skin Contact: Cool skin rapidly with cold water after contact with molten polymer. Do not peel polymer from the skin. Obtain medical attention,

Eye Contact: Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if symptoms occur.

Ingestion: Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur and show the TDS.

Information for medical: Treat symptoms.

5. FIRE-FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable extinguishing media: water spray, foam, dry powder, carbon dioxide (CO₂).

Unsuitable extinguishing media: water jet.

Do not use water, if fire is caused by an electrical short circuit

5.2 HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

300 - 350 °C: The following substances may form: Monomer and oligomer (white fumes).

Thermal decomposition to toxic and corrosive products: Carbon monoxide, Ammonia, Amine derivatives.

Temperature over 500 °C: toxic products form during combustion: carbon oxides, hydrogen cyanide (hydrocyanic acid), (traces)

5.3. ADVICE FOR FIRE-FIGHTERS

Provide/wear a protective breathing apparatus. Wear suitable protective clothing.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. In case of combustion evolution of toxic gases/vapours possible. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE

Sources of ignition should be kept well clear. Avoid contact with the skin and eyes. Avoid inhalation of dust and vapors. If necessary, wear dust masks and safety glasses.

6.2. ENVIRONMENTAL PRECAUTIONS

Should not be released into the environment

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Sweep/shovel up. Avoid raising dust. Ensure adequate ventilation. Dispose of absorbed material in accordance with regulations.

6.4. REFERENCE TO OTHER SECTIONS

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Processing machines must be placed in room' with good ventilation. Avoid the formation and deposition of dust. Handle in accordance with good industrial hygiene and safety practice.

7.2. CONDITIONS FOR SAFE STORAGE. INCLUDING ANY INCOMPATIBILITIES

Information about fire and explosion protection: Make use of general rules of fire prevention.

In case of formation of dust: Take measures to prevent electrostatic charging. Avoid all sources of ignition: heat, sparks, open flame.

Storage: Well closed/packed, cool and dry. Optimal storage temperature 15-25°C. Protect against moisture and heat. Contamination with other substances must be avoided. Storage together with hazardous substances must be avoided.

7.3. SPECIFIC END USES

For the relevant identified uses listed in section 1 the advice mentioned in this section is to be observed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1. CONTROL PARAMETERS

The product does not contain any relevant quantities of materials with occupational exposure limits.

Soot					
Source	Date	Figure type	Value (ppm)	Value mg/m ³	Notes
POL MAC	D6 2014	MAC-NDS	-	4	Inhale fraction
ACGIH (US)	D2 2012	TWA	-	3	Inhale fraction

Cuprous Jodide					
Source	Date	Figure type	Value (ppm)	Value mg/m ³	Notes
POL MAC	D6 2014	MAC-NDS	-	0,2	as Cu
ACGIH (US)	D2 2012	TWA	0,01	-	Inhale fraction
ACGIH (US)	D3 2014	TWA	-	1	as Cu
ACGIH (US)	D3 2014	TWA	-	0,2	as Cu

8.2. EXPOSURE CONTROLS

Personal protective equipment:

Respiratory protection: breathing protection if dusts are formed. Particle filter (Type P1).

Hand protection: use additional heat protection gloves when handling hot molten masses (EN 407).

Eye protection: safety glasses with side-shields (frame goggles) (p. g. EN 166).

Body protection: body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit.

General safety and hygiene measures: avoid contact of molten material with skin. Avoid inhalation of dusts/mist/vapours. Eye wash fountains and safety showers must be easily accessible. Handle in accordance with good industrial hygiene and safety practice. Hands and/or face should be washed before breaks and at the end of the shift. Do not eat, drink or smoke at work. Consult the company Industrial Hygienist for recommendations on exposure testing and personal protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

State of aggregation:	solid
Shape:	round filament
Odour:	odorless
pH:	no data available
Apparent density:	1,12 g/cm ³
Melting/freezing point:	174-178°C
Solubility in water(20°C):	insoluble

9.2. OTHER INFORMATION

None.

10. STABILITY AND REACTIVITY

10.1. REACTIVITY

No reactions if stored and handled as prescribed/indicated.

10.2. CHEMICAL STABILITY

The product is stable if stored and handled as prescribed/indicated.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

The product is stable if stored and handled as prescribed/indicated.

10.4. CONDITIONS TO AVOID

Avoid extreme heat above 230°C. Avoid all sources of ignition: heat, sparks, open flame. Protect from moisture, direct sunlight and/or heat. Avoid dust formation.

10.5. INCOMPATIBLE MATERIALS

Strong oxidizing and reducing agents, strong acids and bases.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

At prolonged and/or strong thermal stressing above the decomposition temperature dangerous decomposition products can be formed (carbon monoxide, carbon dioxide, nitrogen oxides, organic decomposition products).

11. TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON THE LIKELY ROUTES OF EXPOSURE

Inhalation: Combustion products may be irritant; High concentration of dust may be irritant to the respiratory tract.

Ingestion: Expected to be a low ingestion hazard.

Skin contact: May cause physical abrasion in contact with skin. Molten polymer will adhere to the skin causing deep thermal burns.

Eye contact: May cause physical abrasion in contact with eyes.

11.2. INFORMATION ON TOXICOLOGICAL EFFECTS

There are known neither short- nor long-term toxicological effects.

12. ECOLOGICAL INFORMATION

12.1. TOXICITY

Hazard to fish: Based on the available information, it cannot be concluded that this mixture is hazardous. Copper iodide: LC50, 96 h (Oncorhynchus mykiss): 1.67 mg / l (Method: No information available.)

Aquatic invertebrates: Based on the available information, it cannot be concluded that this mixture is hazardous. COPPER IODIDE: LC50, 48 h (Daphnia magna (Water flea)): 0.55 - 0.59 mg/l

Aquatic plants: Harmful to algae. COPPER IODIDE: EC r50, 96 h (Chlamydomonas reinhardtii): 0.047 mg / l (Method: OECD Test Guideline 201, Growth inhibition)

Microorganisms: COPPER IODIDE: EC50, (Activated sludge): 280 mg / l (Method: OECD Guidance 209)

Toxicity to aquatic organisms / Long-term toxicity:

COPPER IODIDE:

NOEC, 72 d (Desmodesmus subspicatus (green algae)): 0,025 mg / l (Method: OECD Test Guideline 201, Growth inhibition)

12.2. PERSISTENCE AND DEGRADABILITY

No data available.

12.3. BIOACCUMULATIVE POTENTIAL

No data available.

12.4. MOBILITY IN SOIL

No data available

12.5. RESULTS OF PBT AND vPvB ASSESSMENT

No data available.

12.6. OTHER ADVERSE EFFECTS

There are known no harmful effects.

13. DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation

14. TRANSPORT INFORMATION

Not classified as a dangerous good under transport regulations (ADR, RID, ADN, IMDG, ICAO/IATA).

14.1. UN NUMBER

No dangerous good in sense of this transport regulation.

14.2. UN PROPER SHIPPING NAME

No dangerous good in sense of this transport regulation.

14.3. TRANSPORT HAZARD CLASSES

No dangerous good in sense of this transport regulation.

14.4. PACKING GROUP

No dangerous good in sense of this transport regulation.

14.5. ENVIRONMENTAL HAZARDS

Not applicable.

14.6. SPECIAL PRECAUTIONS FOR USER

None known.

14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE

Not applicable.

15. REGULATORY INFORMATION**15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS, LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE**

Water hazard class: not hazardous to water.

Contains no substances listed in Annex XVII of the REACH Regulation

15.2. CHEMICAL SAFETY ASSESSMENT

Chemical safety assessments for substances in this mixture were not carried out.

16. OTHER INFORMATION

The information is provided as a way of a guide to the use of our product and is correct to the best of our knowledge. However, neither Fiberlab S.A. nor its subsidiaries can offer any guarantee as to its accuracy or exhaustiveness. All chemicals may present unforeseen risks and should be used with caution. We can not guarantee that the risks referred to above are the only risks present. The final choice of the application of a product is thus the sole responsibility of the user.