

Safety Data Sheet of PA12+CF15 according to Regulation (EC) No. 1907/2006 (REACH) in the current version. Date: October 05, 2018

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: PA12 + CF15
TRADE NAME AND SYNONYMS : Fiberlogy PA12+CF15 filament
CHEMICAL FAMILY : Polyamide (PA 12)
COMPANY NAME: FIBERLAB S.A.
ADDRESS : Brzezie 387, 32-014 Brzezie, Poland
TELEPHONE: +48 731 400 201
EMAIL: office@fiberlogy.com

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

Contact with hot product can cause severe burns. Inhalation: At high temperatures, thermal decomposition products may be irritating to the respiratory system. Skin contact: Danger of skin sensitization. At high temperatures, thermal decomposition products may be irritating to the skin. Eye contact: At high temperatures, thermal decomposition products may be irritating to the eyes.

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

4. FIRST-AID MEASURES

4.1 DESCRIPTION OF FIRST-AID MEASURES

Inhalation: Inhalation of vapors arising from thermal decomposition: Move the victim to fresh air. If necessary, give oxygen or artificial respiration. If problems persist: Get medical advice.

Skin contact: In case of skin contact Immediately wash with soap and plenty of water. In case of contact with a hot product: Skin exposed to molten polymer should be cooled quickly with cold water. If adhered, do not peel off the product layer. Treat affected areas as thermal burns. Get medical advice.

Eye contact: Dust: Immediately rinse the affected eyes thoroughly with water holding them wide open. Remove any foreign particles remaining under the eyelids. If irritation persists, consult an ophthalmologist. In case of contact with hot product: After contact with molten polymer, cool eyes with cold water. Immediately seek advice of an ophthalmologist.

Ingestion: In case of complaints: seek medical advice.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Symptoms: No significant reaction of the human body to the product known.

Hazards: Risk of skin burns caused by hot melt at improper processing. Apart from that no hazard is expected under intended use and appropriate handling.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Continuation of first aid measures. Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Water aerosol, foam, Carbon dioxide (CO₂)

5.2. Special 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. Information for firefighters:

Special methods: Provide a system for quick emptying of containers. If there is fire nearby, remove the bags.

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. 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

None

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. 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

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 Iodide

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
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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) (e. 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/mists/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: continuous solid fiber

Shape: round filament

Odour: none to slightly sweet

Meltdown temp: 170-180 °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

Store at a temperature below 60°C. Heat, flames and sparks. Exposure to moisture. (to maintain the technical properties of the product).

10.5 INCOMPATIBLE MATERIALS

Acid and oxidizer.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition: Decomposition temperature: > 350°C. At 300 - 350°C the following toxins 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 are formed during combustion: carbon oxides, hydrogen cyanide (hydrocyanic acid), (traces)

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity:

Inhalation: Inhalation of vapors - thermal decomposition products: At high temperatures, thermal decomposition products may be irritating to the respiratory system

Ingestion: Polymer. Considering composition, the product should not be harmful under normal conditions of use

In skin contact: Polymer. Considering the structure, the product should not be harmful under normal conditions of use

Local effects (Erosion / Irritation / Serious eye damage):

Skin contact: Polymer - due to its composition - must be considered as: slightly irritating or irritating to the skin. • In humans: Contact with hot product can cause severe burns. At high temperatures, thermal decomposition products may be irritating to the skin

Eye contact: Polymer - due to its composition - must be considered as: Slightly irritating or irritating to eyes. • In humans: Contact with hot product can cause severe burns.

12. ECOLOGICAL INFORMATION

All available and relevant data on this product and/or the components listed in Chapter 3 and/or on analogous substances / metabolites have been taken into account in the hazard assessment.

High toxicity to the aquatic environment: Substance harmful to aquatic life.

12.1. High 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, 3h (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)

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Disposal by recycling or incineration is suggested, whereby all national and local regulations must be followed.

14. TRANSPORT INFORMATION

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

14.1 UN NUMBER

Not applicable.

14.2 UN PROPER SHIPPING NAME

Not applicable.

14.3 TRANSPORT HAZARD CLASSES

Not applicable.

14.4 PACKING GROUP

Not applicable.

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

Regulation: not evaluated.

Shipment approved: not evaluated.

Pollution name: not evaluated.

Pollution category: not evaluated.

Ship Type: not evaluated.

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

Water hazard class: not hazardous to water.

15.2 CHEMICAL SAFETY ASSESSMENT

A safety data sheet for this product is legally not required and is provided by us just as a courtesy to our customers. Product is not classified as hazardous. **Chemical safety assessment not required.**

16. OTHER INFORMATION

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements.