

Safety data sheet according to Regulation (EC) 1907/2006

Printing date: 15.03.2021

Date of compilation / revision: 15.03.2021

Version/revision number: 6

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: UBE NYLON 5033FD10**
- **1.2 Relevant identified uses of the substance or mixture**
 Uses advised against: MEDICAL APPLICATIONS such as any implantation in the human body or any contact with internal body fluids/tissues are PROHIBITED, since compliance with medical regulations is not assured.
- **Application of the substance / the mixture**
 Extrusion
 Film, injection moulding
- **1.3 Details of the supplier of the safety data sheet**
 UBE Corporation Europe, S.A.U.
 Polígono El Serrallo s/n
 12100 Grao de Castellón (Spain)
 Tel: +34 964 73 80 00
 SDS.UBE.EU@ube.com
- **Commercial office:**
 UBE Corporation Europe, S.A.U.
 Immermannstraße 65B
 40210 Dusseldorf (Germany)
 Tel: +49 211 178 83 28
- **1.4 Emergency telephone number: +44 (0)1235 239670 (24h/7day)**

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
 The product is not classified, according to the CLP regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** None
- **Hazard pictograms** None
- **Signal word** None
- **Hazard statements** None
- **Additional information:**
 EUH208 Contains copper iodide. May produce an allergic reaction.
 EUH210 Safety data sheet available on request.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture: consisting of the following components.

- **Dangerous components:**

CAS: 7681-65-4 EINECS: 231-674-6	copper iodide ⚠ STOT RE 1, H372; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1A, H317	<0.025%
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· Non dangerous components

24993-04-2	Polyamide 6/66	>89%
25038-54-4	Polyamide 6	<5%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures
· General information:

Take affected persons out of danger area and lay down.

To show SDS or label

Take affected persons out into the fresh air.

Remove contaminated clothing that are not attached to the skin

Do not leave affected persons unattended.

Seek medical treatment.

· After inhalation:

Molten state:

If exposed to vapors from heating and molding material , remove to fresh air .

If symptoms, coughing and discomfort in nose and throat remain, get medical attention.

· After skin contact:

Molten state:

Burns caused by molten material require hospital treatment.

If redness, itching or burning sensation develops, get medical attention.

Remove contaminated clothing

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment.

Wash clothing before reuse. Properly clean shoes before reuse

· After eye contact:

Flush eyes with water for at least 15 minutes, keeping eyelids open.

Remove any contact lenses and open eyes wide apart. Continue to rinse

Call a doctor immediately.

· After swallowing:

If swallowed, rinse mouth with water (only if the person is conscious).

Rinse out mouth and then drink plenty of water.

Seek medical treatment.

· 4.2 Most important symptoms and effects, both acute and delayed

Irreversible dermatitis will occur if you do not wash affected skin immediately and thoroughly.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media
· Suitable extinguishing agents:

Carbon dioxide

Fire-extinguishing powder

Foam

Water spray

· For safety reasons unsuitable extinguishing agents: none

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Trade name: UBE NYLON 5033FD10**· 5.2 Special hazards arising from the substance or mixture**

The product is not classified as flammable, but will burn if involved in a fire, producing irritant or hazardous gas (iodine gas).

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide (CO)

Carbon Dioxide (CO₂)

Hydrogen cyanide (HCN)

Ammonia (NH₃)

Halogen compounds

· 5.3 Advice for firefighters**· Protective equipment:**

Wear self-contained respiratory protective device.

Firefighters should wear appropriate protective equipment

· Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as indicated in paragraph 8

Stop leak if you can do so without risk

Remove combustible materials

Ensure adequate ventilation

· 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.**· 6.3 Methods and material for containment and cleaning up:**

Sweep up to prevent slipping on polymer pellets

Dispose contaminated material as waste according to item 13.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not eat, drink, smoke or sniff while working.

Melted state:

Avoid skin contact with the liquefied material.

Avoid breathing vapors / gases from molten material.

· Information about fire - and explosion protection: Protect against electrostatic charges.**· 7.2 Conditions for safe storage, including any incompatibilities****· Storage:****· Requirements to be met by storerooms and receptacles:**

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· Information about storage in one common storage facility: Not required.**· Further information about storage conditions:** Protect from heat and direct sunlight.

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 · **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

 · **Ingredients with limit values that require monitoring at the workplace:**
7681-65-4 copper iodide

WEL (Great Britain)	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³ dusts and mists, as Cu
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- **DNEL (workers)** Not available data.
- **DNEL (general population)** No data.
- **PNECs** No available data.
- **Additional information:** The lists valid during the making were used as basis.

8.2 Exposure controls
Appropriate engineering controls

Adequate ventilation should be maintained at handling.
 Additionally, local exhaust ventilation recommended at melting process.
 No further data; see item 7.

Individual protection measures, such as personal protective equipment
General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing
 Wash hands before breaks and at the end of work.
 In accordance with Directive 89/686/EEC on personal protective equipment

Respiratory protection:

Not necessary if room is well-ventilated.
 Melted state:
 Use suitable respiratory protective device in case of insufficient ventilation.
 Wear a respirator conforming to EN140 at least with Type A filter.

Hand protection

Molten state:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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· Eye/face protection


Tightly sealed goggles

Safety goggles should be worn. At treating hot polymer or molten polymer, face shield should be recommended.

· Skin and body protection:

 Chemical resistant clothing
 Boots

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties
· General Information

<ul style="list-style-type: none"> · Colour: · Odour: · Odour threshold: · Melting point/freezing point: · Boiling point or initial boiling point and boiling range · Flammability · Lower and upper explosion limit · Lower: · Upper: · Flash point: · Auto-ignition temperature: · Decomposition temperature: · pH · Viscosity: · Kinematic viscosity · Dynamic: · Solubility · water: · Partition coefficient n-octanol/water (log value) · Vapour pressure: · Density and/or relative density · Density: · Relative density · Vapour density 	Natural Odourless Not applicable 215-225 °C (PA6) Not determined for mixture. Not determined for mixture. Not determined for mixture. Not determined for mixture. Not determined for mixture. Not determined for mixture. Not determined for mixture. 325-350 °C (PA6) Not determined for mixture. PA6: 325-350 °C Not applicable for being a solid Not applicable. Not applicable to solid Insoluble. Not determined. Not applicable for being a solid Not determined. Not determined for mixture. PA6: 1.13-1.15 Not applicable for being a solid
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· 9.2 Other information

<ul style="list-style-type: none"> · Appearance: · Form: · Important information on protection of health and environment, and on safety. · Ignition temperature 	Pellets >400 °C
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<ul style="list-style-type: none"> · Explosive properties: · Freezing point · Oxidising properties · Evaporation rate 	Product does not present an explosion hazard. No oxidising properties CuI: 10 mmHg (656 °C) Not applicable because it is a solid mixture
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· Information with regard to physical hazard classes	
· Explosives	None
· Flammable gases	None
· Aerosols	None
· Oxidising gases	None
· Gases under pressure	None
· Flammable liquids	None
· Flammable solids	None
· Self-reactive substances and mixtures	None
· Pyrophoric liquids	None
· Pyrophoric solids	None
· Self-heating substances and mixtures	None
· Substances and mixtures, which emit flammable gases in contact with water	None
· Oxidising liquids	None
· Oxidising solids	None
· Organic peroxides	None
· Corrosive to metals	None
· Desensitised explosives	None

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No additional information available
- **10.2 Chemical stability** Stable under ordinary conditions of use and storage.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
Overheat causes decomposition of it and generate toxic substances such as KO, HI, CuO (decomposed at 350-400°C in the atmosphere).
- **10.4 Conditions to avoid** Avoid heat, flames, sparks and other sources of ignition.
- **10.5 Incompatible materials:**
Strong acids
Reacts with oxidising agents.
strong bases
- **10.6 Hazardous decomposition products:**
Iodine compounds
Hydrogen iodide (HI)
Carbon dioxide
Carbon monoxide
CuO

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SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

7681-65-4 copper iodide

Oral	LD50	300-2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)

- **Skin corrosion/irritation**

Mixture:

Light skin irritation (Cul)

- **Serious eye damage/irritation**

Mixture:

Cul

Corrosive to eye (rabbit, OECD 405)

- **Respiratory or skin sensitisation**

Mixture:

Cul:

Skin sensitizing (Guinea pig maximization test)

- **Germ cell mutagenicity**

Cul:

Ames test: negative

In vivo micronucleus: negative

In vivo unscheduled DNA synthesis: negative

- **Carcinogenicity** Based on available data, the classification criteria are not met.

- **Reproductive toxicity** Based on available data, the classification criteria are not met.

- **STOT-single exposure** Based on available data, the classification criteria are not met.

- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

- **Aspiration hazard** Based on available data, the classification criteria are not met.

- **Other information (about experimental toxicology):**

Aspiration hazard: Not classified (not further relevant information available)

- **Additional toxicological information:**

- **Acute effects (acute toxicity, irritation and corrosivity)**

Cul:

Respiratory tract irritation is reported.

- **Repeated dose toxicity**

Cul:

Thyroid hormone levels increase in both sexes treated with 100 mg/L iodine. (rat, OECD 408)

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

No further relevant information available.

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:** No further relevant information available.

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- **12.2 Persistence and degradability**
Mixture: No information available
KI: Soluble in water (148 g/100g Water at 25 °C)
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Disposal must be made according to official regulations.
Must be specially treated adhering to official regulations.
Chemical residues generally count as special waste
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---|-----------------|
| <ul style="list-style-type: none"> · 14.1 UN number or ID number · ADR, ADN, IMDG, IATA | Not applicable |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA | Not applicable |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class | Not applicable |
| <ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA | Not applicable |
| <ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: | No |
| <ul style="list-style-type: none"> · 14.6 Special precautions for user | Not applicable. |
| <ul style="list-style-type: none"> · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |

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 · **UN "Model Regulation":** Not applicable

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The mixture is self-classified on the basis of available information on the ingredients. This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
- **Training hints**
Specific training of workers to comply with the requirements specified in the Safety Data Sheet is required.
- **Department issuing SDS:** Product Liability group
- **Contact:** Contact with business unit for any issue related to the safety data sheet
- **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- **Sources** Safety data sheets of raw material suppliers.
- *** Data compared to the previous version altered.**
Section 2: Information regarding additional data.

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Section 3: Information on ingredients.

Section 8: Data updated.

Section 9: Additional information.

Section 11: Updated information on toxicological effects.

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