

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

Printing date: 01.04.2021

Date of compilation / revision: 01.04.2021

Version/revision number: 4

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

- **1.1 Product identifier**
- **Trade name: UBE NYLON 1015GNKF**
- **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.
- **Sector of Use**  
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- **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.

(Contd. on page 2)

GB

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

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**· Dangerous components:**

|                                     |                                                                                                                                                                                 |             |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| CAS: 7681-65-4<br>EINECS: 231-674-6 | copper iodide<br>⚠ 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 | ≥0.01-<0.1% |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|

**· Non dangerous components**

|                                      |               |         |
|--------------------------------------|---------------|---------|
| CAS: 25038-54-4                      | Polyamide 6   | 50-100% |
| CAS: 65997-17-3<br>EINECS: 266-046-0 | Fibrous Glass | 25-50%  |
|                                      | Others        | 0-1%    |

**· 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 into the fresh air.

Seek medical treatment.

**· After inhalation:**

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:**

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

After contact with the molten product, cool rapidly with cold water.

Do not pull solidified product off the skin.

Seek medical treatment.

**· After eye contact:**

Immediately flush exposed area with copious amounts of tepid water for at least 15 minutes

If redness, itching or burning sensation develops, do not rub eyes and immediately get medical attention.

**· After swallowing:** Rinse out mouth and then drink plenty of water.

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

At molten state, expected to cause burns to skin.

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**

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

### SECTION 5: Firefighting measures

**· 5.1 Extinguishing media**
**· Suitable extinguishing agents:**

Water

Fire-extinguishing powder

Carbon dioxide

Use fire extinguishing methods suitable to surrounding conditions.

**· For safety reasons unsuitable extinguishing agents:** Not known

**· 5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Carbon monoxide (CO)

(Contd. on page 3)

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

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**Trade name: UBE NYLON 1015GNKF**Carbon Dioxide (CO<sub>2</sub>)

Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

Hydrogen cyanide (HCN)

Ammonia (NH<sub>3</sub>)**5.3 Advice for firefighters**· **Protective equipment:** 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**

Stop leak if you can do so without risk

Remove combustible materials

Ensure adequate ventilation

Use personal protective equipment as indicated in paragraph 8

· **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

Send for recovery or disposal in suitable receptacles.

**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**

Melted state:

Avoid skin contact with the liquefied material.

Avoid breathing dust/fume/vapours.

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.

· **Information about fire - and explosion protection:** No special measures required.**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.

· **Information about storage in one common storage facility:** Not required.· **Further information about storage conditions:** None.· **7.3 Specific end use(s)** See item 1.2

GB

(Contd. on page 4)

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

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### 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 (<0.1%)**

|                     |                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------|
| WEL (Great Britain) | Short-term value: 2 mg/m <sup>3</sup><br>Long-term value: 1 mg/m <sup>3</sup><br>dusts and mists, as Cu |
|---------------------|---------------------------------------------------------------------------------------------------------|

· **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.

##### · **Individual protection measures, such as personal protective equipment**

##### · **General protective and hygienic measures:**

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.  
Unnecessary under normal processing  
Melted state:  
Wear a respirator conforming to EN140 at least with Type A filter.

##### · **Hand protection**



Protective gloves

Molten state:

Heat protection 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**

Leather 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.

##### · **Eye/face protection**



Safety glasses

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

· **Skin and body protection:** Protective work clothing

(Contd. on page 5)

## Safety data sheet

### according to Regulation (EC) 1907/2006

Printing date: 01.04.2021

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Version/revision number: 4

**Trade name: UBE NYLON 1015GNKF**

 · **Environmental exposure controls** Prevent the material from spreading into the environment.

### SECTION 9: Physical and chemical properties

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

##### · General Information

|                                                                   |                             |
|-------------------------------------------------------------------|-----------------------------|
| · <b>Physical state</b>                                           | Solid                       |
| · <b>Colour:</b>                                                  | Black                       |
| · <b>Odour:</b>                                                   | Light                       |
| · <b>Odour threshold:</b>                                         | Not determined.             |
| · <b>Melting point/freezing point:</b>                            | Not determined for mixture. |
| · <b>Boiling point or initial boiling point and boiling range</b> | Not determined for mixture. |
| · <b>Flammability</b>                                             | Not determined for mixture. |
| · <b>Lower and upper explosion limit</b>                          |                             |
| · <b>Lower:</b>                                                   | Not applicable.             |
| · <b>Upper:</b>                                                   | Not applicable.             |
| · <b>Flash point:</b>                                             | Not applicable.             |
| · <b>Auto-ignition temperature:</b>                               | Not determined for mixture. |
| · <b>Decomposition temperature:</b>                               | Not determined for mixture. |
| · <b>pH</b>                                                       | Not applicable.             |
| · <b>Viscosity:</b>                                               |                             |
| · <b>Kinematic viscosity</b>                                      | Not applicable.             |
| · <b>Dynamic:</b>                                                 | Not applicable.             |
| · <b>Solubility</b>                                               |                             |
| · <b>water:</b>                                                   | Soluble.                    |
| · <b>Partition coefficient n-octanol/water (log value)</b>        | Not determined.             |
| · <b>Vapour pressure:</b>                                         | Not applicable.             |
| · <b>Density and/or relative density</b>                          |                             |
| · <b>Density:</b>                                                 | Not determined.             |
| · <b>Relative density</b>                                         | Not determined for mixture. |
| · <b>Vapour density</b>                                           | Not applicable.             |

#### · 9.2 Other information

|                                                                                        |                                               |
|----------------------------------------------------------------------------------------|-----------------------------------------------|
| · <b>Appearance:</b>                                                                   |                                               |
| · <b>Form:</b>                                                                         | Pellets                                       |
| · <b>Important information on protection of health and environment, and on safety.</b> |                                               |
| · <b>Ignition temperature</b>                                                          | Not determined for mixture.                   |
| · <b>Explosive properties:</b>                                                         | Product does not present an explosion hazard. |
| · <b>Solvent content:</b>                                                              |                                               |
| · <b>Solids content:</b>                                                               | 100.0 %                                       |
| · <b>Freezing point</b>                                                                |                                               |
| · <b>Evaporation rate</b>                                                              | Not applicable.                               |

#### · Information with regard to physical hazard classes

|                     |              |
|---------------------|--------------|
| · <b>Explosives</b> | None<br>None |
|---------------------|--------------|

(Contd. on page 6)

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|                                                                                    |      |
|------------------------------------------------------------------------------------|------|
| · <b>Flammable gases</b>                                                           | None |
|                                                                                    | None |
| · <b>Aerosols</b>                                                                  | None |
|                                                                                    | None |
| · <b>Oxidising gases</b>                                                           | None |
|                                                                                    | None |
| · <b>Gases under pressure</b>                                                      | None |
|                                                                                    | None |
| · <b>Flammable liquids</b>                                                         | None |
|                                                                                    | None |
| · <b>Flammable solids</b>                                                          | None |
|                                                                                    | None |
| · <b>Self-reactive substances and mixtures</b>                                     | None |
|                                                                                    | None |
| · <b>Pyrophoric liquids</b>                                                        | None |
|                                                                                    | None |
| · <b>Pyrophoric solids</b>                                                         | None |
|                                                                                    | None |
| · <b>Self-heating substances and mixtures</b>                                      | None |
|                                                                                    | None |
| · <b>Substances and mixtures, which emit flammable gases in contact with water</b> | None |
|                                                                                    | None |
| · <b>Oxidising liquids</b>                                                         | None |
|                                                                                    | None |
| · <b>Oxidising solids</b>                                                          | None |
|                                                                                    | None |
| · <b>Organic peroxides</b>                                                         | None |
|                                                                                    | None |
| · <b>Corrosive to metals</b>                                                       | None |
|                                                                                    | None |
| · <b>Desensitised explosives</b>                                                   | None |
|                                                                                    | None |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** Stable under ordinary conditions of use and storage.
- **10.2 Chemical stability**  
Stable at environment temperature.  
The product is stable if stored and handled as prescribed/indicated
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**  
No hazardous reactions if stored and handled as prescribed/indicated.
- **10.4 Conditions to avoid**  
Avoid heat, flames, sparks and other sources of ignition.  
Avoid high temperature
- **10.5 Incompatible materials:** Oxidizing agents, acids, bases and reactive agents.
- **10.6 Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Hydrogen cyanide (prussic acid)

(Contd. on page 7)

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

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Ammonia

### SECTION 11: Toxicological information

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

- **Acute toxicity**

- **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** Not classified (Lack of data)

- **Respiratory or skin sensitisation** Not classified (Lack of data)

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

Aspiration hazard: No further relevant information available.

- **Additional toxicological information:**

- **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:**

**7681-65-4 copper iodide**

|             |                                            |
|-------------|--------------------------------------------|
| EC50(72h)   | 0.13 mg/L (green algae) (OECD 201)         |
| LC50 (96 h) | 1.67 mg/l (Oncorhynchus mykiss) (OECD 203) |
| EC50 (48 h) | 0.59 mg/l (daphnia magna)                  |
| NOEC        | 0.03 mg/L /(7d) (algae)                    |

- **12.2 Persistence and degradability** No further relevant information available.

- **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**

For information on endocrine disrupting properties see section 11.

- **12.7 Other adverse effects**

- **Additional ecological information:**

- **General notes:**

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.

GB

(Contd. on page 8)

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

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### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
 Chemical residues generally count as special waste  
 Disposal must be made according to official regulations.  
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:**  
 Packaging may contain residues of the product and should be treated accordingly.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

|                                                                       |                                                             |
|-----------------------------------------------------------------------|-------------------------------------------------------------|
| · <b>14.1 UN number or ID number</b>                                  | The substance is not classified under transport regulations |
| · <b>ADR, IMDG, IATA</b>                                              | Not applicable                                              |
| · <b>14.2 UN proper shipping name</b>                                 | The substance is not classified under transport regulations |
| · <b>ADR, IMDG, IATA</b>                                              | Not applicable                                              |
| · <b>14.3 Transport hazard class(es)</b>                              | The substance is not classified under transport regulations |
| · <b>ADR, ADN, IMDG, IATA</b>                                         |                                                             |
| · <b>Class</b>                                                        | Not applicable                                              |
| · <b>14.4 Packing group</b>                                           | The substance is not classified under transport regulations |
| · <b>ADR, IMDG, IATA</b>                                              | Not applicable                                              |
| · <b>14.5 Environmental hazards:</b>                                  |                                                             |
| · <b>Marine pollutant:</b>                                            | No                                                          |
| · <b>14.6 Special precautions for user</b>                            | Not applicable.                                             |
| · <b>14.7 Maritime transport in bulk according to IMO instruments</b> | Not applicable.                                             |
| · <b>UN "Model Regulation":</b>                                       | Not applicable                                              |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **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.

GB

(Contd. on page 9)



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

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### SECTION 16: Other information

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

- **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)

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

- **\* Data compared to the previous version altered.**

Section 8: Update of substances with limit values.

Section 11: Toxicological data updated

Section 12: Updated information.