

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

Printing date: 25.04.2016

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

- **1.1 Product identifier**
- **Trade name: UBE NYLON 5034TX25**
- **1.2 Relevant identified uses of the substance or mixture**
No further relevant information available.
- **Application of the substance / the mixture** Extrusion
- **1.3 Details of the supplier of the safety data sheet**
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Polígono El Serrallo s/n
12100 Grao de Castellón (Spain)
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- Commercial office:
UBE Corporation Europe, S.A.U
Address: Immermannstrasse 65B D-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
- **2.3 Other hazards** Chronic toxicity / Carcinogenicity: IARC4
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:**
Mixture: consisting of the following components.
Polyamide 6/66 >95% , Epsilon-Caprolactam <5%

- **Dangerous components:**

CAS: 105-60-2	epsilon-caprolactam solid	< 5.0%
EINECS: 203-313-2	 Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
Reg.nr.: 01-2119457029-36-0006		

- **Non dangerous components**

24993-04-2	Polyamide 6/66	> 95,0%
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SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:**
Melted state:
Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
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:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Seek medical treatment.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **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:**
Water
Fire-extinguishing powder
Carbon dioxide
- **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide (CO)
Carbon Dioxide (CO₂)
Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
Hydrogen cyanide (HCN)
Ammonia (NH₃)
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear fully protective suit.
Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
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.

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SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
 No special measures required.
 Handle with care - Do not subject to grinding/shock/friction.
 Ensure good ventilation/exhaustion at the workplace.
- **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.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from heat and direct sunlight.
- **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:**
 ACGIH (2004): Epsilon-caprolactam 5 mg/m³ (TWA)
 ACGIH (2004): Epsilon-caprolactam 5 mg/m³ (TWA)
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 The usual precautionary measures are to be adhered to when handling chemicals.
 Avoid skin contact with the liquefied material.
 Avoid breathing dust/fume/vapours.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:**
 Melted state:



Protective gloves

Heat protection gloves

- **Material of gloves**
 Melted state:
 Heat protection gloves
- **Eye protection:**



Safety glasses

 Melted state:
 Face protection

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

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SECTION 9: Physical and chemical properties

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

Form:	Pellets
Colour:	Brown & white
Odour:	Odourless

· Change in condition

Melting point/Melting range: approx.190 °C

· Flash point: Not applicable.

· Flammability (solid, gaseous): Product is not flammable.

· Ignition temperature >400 °C

· Danger of explosion: Product does not present an explosion hazard.

· Density at 20 °C: 1.09-1.19 g/cm³

· Solubility in / Miscibility with water: Insoluble.

· Solvent content:

Organic solvents: 0.0 %

Solids content: 100.0 %

· 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability
· Thermal decomposition / conditions to be avoided:

Stable at environment temperature.

No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions No dangerous reactions known.

· 10.4 Conditions to avoid No further relevant information available.

· 10.5 Incompatible materials: Oxidizing agents, acids, bases and reactive agents.

· 10.6 Hazardous decomposition products:

Carbon monoxide

Carbon dioxide

Hydrogen cyanide (prussic acid)

Ammonia

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

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

· LD/LC50 values relevant for classification:

25038-54-4 Polyamide 6

Oral	LD50	3,200 mg/kg (rat)
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105-60-2 epsilon-caprolactam solid

Oral	LD50	1475-1876 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4 h	8.16 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** 500 mg/24hrs mild (rabbit)
- **Serious eye damage/irritation** 20 mg/24hrs moderate (rabbit)
- **Respiratory or skin sensitisation** Not sensitizing (guinea pig, maximation test)
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
Carcinogenity:Negative (rat)
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenity** 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.

SECTION 12: Ecological information

 · **12.1 Toxicity**

 · **Aquatic toxicity:**
105-60-2 epsilon-caprolactam solid

EC50/48 h	>500 mg/l (daphnia magna)
EC50/72 h	130 mg/l (algae)
LC50/96 h	500-1000 mg/l (bluegeil)

- **12.2 Persistence and degradability** biodegradable
- **Other information:**
The product is biodegradable.
82% after 14 days (OECD 301C)
90-100% DOC after 28 days (OECD 301 A and B)
- **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 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

 · **13.1 Waste treatment methods**

 · **Recommendation**

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.

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SECTION 14: Transport information

<ul style="list-style-type: none"> · 14.1 UN-Number · ADR, ADN, IMDG, IATA 	None
<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA 	None
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class 	None
<ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA 	None
<ul style="list-style-type: none"> · 14.5 Environmental hazards: 	Not applicable.
<ul style="list-style-type: none"> · 14.6 Special precautions for user 	Not applicable.
<ul style="list-style-type: none"> · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> · UN "Model Regulation": 	None

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

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.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
- **Department issuing MSDS:** Product Liability group
- **Contact:** E-mail: sds.ube.eu@ube.es
- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport 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, Hazard Category 4

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Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

· * **Data compared to the previous version altered.** Section 1: Changed name of the company

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