

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

Printing date: 26.05.2016

Date of compilation / revision: 26.05.2016

Version / revision n°: 4

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

- **1.1 Product identifier**
- **Trade name: UBE NYLON 6434MT1**
- **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**  
 Film, injection moulding  
 Extrusion
- **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.es  
  
 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**
- **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.

- **Dangerous components:**

CAS: 105-60-2 EINECS: 203-313-2 Reg.nr.: 01-2119457029-36-0006	epsilon-caprolactam solid ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2.5-<10%
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**· Non dangerous components**

40959-29-3	Polyamide 6/66/12	50-100%
	Others	0.1-≤2.5%

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

### SECTION 4: First aid measures

**· 4.1 Description of first aid measures**
**· General information:**

Immediately remove any clothing soiled by the product.

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:**

Immediately wash with water and soap and rinse thoroughly.

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 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.

Do not induce vomiting; call for medical help immediately.

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

At molding 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**

No specific treatment information is available. Symptomatic treatment is advisable

### 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)

 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>)

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- **5.3 Advice for firefighters**
- **Protective equipment:**  
Firefighters should wear appropriate protective equipment  
Wear self-contained respiratory protective device.
- **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 product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
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.  
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.  
molten state:  
Avoid skin contact with the liquefied material.  
Avoid breathing dust/fume/vapours.
- **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.  
See item 1.2

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### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:**  
Adequate ventilation should be maintained at handling.  
Additionally, local exhaust ventilation recommended at molding process.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **DNEL (workers)** Not available
- **DNEL (general population)** Not available
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **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:**  
Unnecessary under normal processing  
Melted state:  
Wear a respirator conforming to EN140 at least with Type A filter.
- **Protection of hands:**



Protective gloves

Melted state:

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



Safety glasses

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

- **Skin and body protection:** Protective work clothing
- **Limitation and supervision of exposure into the environment**  
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**
- **Appearance:**

<b>Form:</b>	Pellets
<b>Colour:</b>	Natural
- **Odour:** Light
- **Odour threshold:** Not applicable

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· <b>pH-value:</b>	Not applicable.
· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Not determined for mixture.
<b>Boiling point/Boiling range:</b>	Not determined for mixture.
· <b>Flash point:</b>	Not applicable.
· <b>Flammability (solid, gaseous):</b>	Not determined for mixture.
· <b>Ignition temperature</b>	
<b>Decomposition temperature:</b>	Not determined for mixture.
· <b>Self-igniting:</b>	Not determined for mixture.
· <b>Danger of explosion:</b>	Not determined for mixture.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Oxidising properties</b>	No oxidising properties
· <b>Vapour pressure:</b>	Not applicable because it is a solid mixture
· <b>Density:</b>	Not determined.
· <b>Vapour density</b>	Not applicable.
· <b>Evaporation rate</b>	Not applicable because it is a solid mixture
· <b>Solubility in / Miscibility with water:</b>	Insoluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined for mixture.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable because it is a solid mixture
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity**  
Dangerous reactions are not expected handling the product according to its intended use.
- **10.2 Chemical stability** The product is stable if stored and handled as prescribed/indicated
- **Thermal decomposition / conditions to be avoided:**  
Stable at environment temperature.  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **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  
Carbon dioxide  
Hydrogen cyanide (prussic acid)

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Ammonia

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Other information (about experimental toxicology):**  
Aspiration hazard: No further relevant information available.
- **Acute effects (acute toxicity, irritation and corrosivity)**  
STOT-single exposure: Not available  
No further relevant information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **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.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** Not determined for mixture.
- **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**  
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.

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### SECTION 14: Transport information

<ul style="list-style-type: none"> <li>· 14.1 UN-Number</li> <li>· ADR, ADN, IMDG, IATA</li> </ul>	None
<ul style="list-style-type: none"> <li>· 14.2 UN proper shipping name</li> <li>· ADR, ADN, IMDG, IATA</li> </ul>	None
<ul style="list-style-type: none"> <li>· 14.3 Transport hazard class(es)</li> <li>· ADR, ADN, IMDG, IATA</li> <li>· Class</li> </ul>	None
<ul style="list-style-type: none"> <li>· 14.4 Packing group</li> <li>· ADR, IMDG, IATA</li> </ul>	None
<ul style="list-style-type: none"> <li>· 14.5 Environmental hazards:</li> <li>· Marine pollutant:</li> </ul>	No
<ul style="list-style-type: none"> <li>· 14.6 Special precautions for user</li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· Transport/Additional information:</li> </ul>	Not classification assigned
<ul style="list-style-type: none"> <li>· UN "Model Regulation":</li> </ul>	None

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Additional Information:**  
This substance/mixture does not legally require an SDS based on Regulation 1907/2006 (REACH). However, this SDS format, is utilized to supply information required according to Article 32 of REACH.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not 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.
- **Training hints**  
Specific training of workers to comply with the requirements specified in the Safety Data Sheet is required.
- **Department issuing MSDS:** Product Liability group
- **Contact:** Contact with business unit for any issue related to the safety data sheet
- **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)

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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)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
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: Update of product identifiers.

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