SAFETY DATA SHEET

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

1.1 Product identifier

UBESTA 3014U
Polyamide 12
CAS No.: 24937-16-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant Identified uses: Extrusion, Injection etc.
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.

1.3 Details of the supplier of the safety data sheet

UBE Corporation
Performance Polymers & Chemicals Division, Nylon Polymer Business Department / Composite Business Department
Seavans North Building, 1-2-1 Shibaura Minato-ku,
Tokyo 105-8449, Japan (Nylon Polymer Business Department) /
Urbannet Nagoya Buliding, 1-1-10, Higashisakura, Higashi-ku,
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Telephone: +81-3-5419-6173 (Nylon Polymer Business Department) /
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Telefax: +81-3-5419-6254 (Nylon Polymer Business Department) /
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E-mail: msds_nylon@ube.com

1.4 Emergency telephone number

UBE Corporation
Telephone: +81-3-5419-6173 / +81-52-961-1373
(within business hours)

Section 2: Hazards identification

2.1 Classification of the substance or mixture

GHS classification: This product is not classified as hazardous under GHS.

2.2 Label elements

Hazard pictograms	None
Signal word	None
Hazard statements	None
Precautionary statements	
Prevention	None
response	None
storage	None
disposal	None
Supplemental Hazard information (EU)	Not applicable

2.3 Other hazards

None known

Section 3: Composition/information on ingredients

3.1 Mixture

Identification name	Concentration (%)	EC No.	CAS No.
Polyamide 12	> 98	- (Polymer)	24937-16-4
Others	< 2		

Section 4: First aid measures

4.1 Description of first aid measures

General advice: Move out of dangerous area. Take off all contaminated clothing immediately. Obtain immediate medical attention in case of severe exposure, even if the exposed person has no symptom. Show this safety data sheet to the doctor in attendance.

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.

Skin contact: Wash material off skin with plenty of water and soap.
If redness, itching or burning sensation develops, get medical attention.
If molten polymer contacts skin, cool immediately with cold and clean water.
Do not attempt to peel the solidified polymer from skin, and get medical attention for thermal burn.

Eye contact: Immediately flush with plenty of clean water for at least 15 minutes.
If redness, itching or burning sensation develops, do not rub eyes and immediately get medical attention.

Ingestion: If swallowed, wash out mouth thoroughly and give water to drink. Seek immediate medical attention. Speed is essential. Do not induce vomiting, unless instructed by medical personnel.

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: Not available.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water, dry chemical and carbon dioxide

Unsuitable extinguishing media: None

5.2 Special hazards arising from the substance or mixture: May produce harmful gasses, primary CO, CO2 and small amount of HCN and NH3.

5.3 Advice for firefighters: Remove containers from fire and cool them with water spray. Firefighters should wear an approved self-contained breathing apparatus and full protective clothing. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Section 6: Accidental release measures

6.1	**Personal precautions, protective equipment and emergency procedures**	For large-scale spills, ensure full personal protection is worn (see Section 8). Stop leak if possible without personal risk.
6.2	**Environmental precautions**	Prevent from contaminating soil and/or from entering, sewage, drainage systems and/or bodies of water.
6.3	**Methods and material for containment and cleaning up**	Sweep up to prevent slipping on polymer pellets and collects into suitable containers for disposal.
6.4	**Reference to other sections**	For recommended personal protective equipment, see Section 8. For disposal considerations, see Section 13.

Section 7: Handling and storage

7.1	**Precautions for safe handling**	At molding process, avoid inhalation of vapours from machine and contacting with molten polymer. Reinforcing material and polymer dust may cause irritation and redness of skin and eye. After handling, wash with soap and plenty of clean water. Not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas.
7.2	**Conditions for safe storage, including any incompatibilities**	In case of pellet, transfer of polymer pellets will produce static electricity. This should be reduced or eliminated as much as possible since they provide a source of ignition for flammable vapour or gasses that may be present in an industrial area or can shock operators.
7.3	**Specific end use(s)**	No additional information available.

Section 8: Exposure controls/personal protection

8.1 Control parameters

JP limit values	Not available
US limit values (ACGIH)	Not available
Other: human health (DNELs)	Not available
Other: environmental (PNEC)	Not available

8.2 Exposure controls

Appropriate engineering controls	Adequate ventilation should be maintained at handing. Additionally, local exhaust ventilation recommended at molding process.
Personal protection equipment	Eye/face protection: Safety goggles should be worn. At treating hot polymer or molding, face shield should be recommended. Skin protection: Safety shoes or boots. Chemical resistant clothes Hand protection: Unnecessary under normal processing. Other: Unnecessary under normal processing. Respiratory protection: Unnecessary under normal processing. Thermal hazards: At treating hot polymer or molding process, heat-resistant leather gloves should be required.
Environmental exposure	Refer to Section 6.

controls

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Milky white pellets
Odour	Slight odour
Odour threshold	Not applicable.
pH	Not applicable
Melting point / freezing point	Not determined for mixture. 180 °C (PA 12)
Initial boiling point and boiling range	Not tested
Flash point	Not tested
Evaporation rate	Not applicable for solid
Flammability (solid, gas)	As a mixture: non-flammable In conformity with United Nations Recommendations 4.1 Burning rate test.
Upper/lower flammability. or explosive limits	Not applicable for solid
Vapour pressure	Not applicable for solid
Vapour density	Not applicable for solid
Relative density	Not determined for mixture. 1.01-1.02 (PA12)
Solubility(ies)	Water solubility: Negligible
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	As a mixture: not self-igniting 330 °C (PA12), In conformity with United Nations Recommendations 4.2 Spontaneous combustion test.
Decomposition temperature	Not tested
Viscosity	Not applicable for solid
Explosive properties	Not explosive
Oxidising properties	Not oxidising

9.2 Other information — No additional information available

Section 10: Stability and reactivity

10.1 Reactivity	No additional information available.
10.2 Chemical stability	Stable under recommended storage and handling conditions.
10.3 Possibility of hazardous reactions	No additional information available.
10.4 Conditions to avoid	Avoid heat, flames, sparks and other sources of ignition and high temperature.
10.5 Incompatible materials	Strong acids, bases and oxidizing agents
10.6 Hazardous decomposition products	Primary CO, CO_2 and small amount of HCN, NH_3

Section 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity	Not classified (Lack of data)
Skin corrosion/irritation	Not classified (Lack of data)
Serious eye damage/irritation	Not classified (Lack of data)
Respiratory or skin sensitisation	Not classified (Lack of data)
Germ cell mutagenicity	Not classified (Lack of data)
Carcinogenicity	Not classified (Lack of data)
Reproductive toxicity	Not classified (Lack of data)
STOT-single exposure	Not classified (Lack of data)
STOT-repeated exposure	Not classified (Lack of data)
Aspiration hazard	Not classified (Lack of data)

Section 12: Ecological information

12.1 Toxicity	Mixture: No information available
12.2 Persistence and degradability	Mixture: No information available.
12.3 Bioaccumulative potential	Mixture: No information available.
12.4 Mobility in soil	No additional information available
12.5 Other adverse effects	No information available.

Section 13: Disposal considerations

13.1 Waste treatment methods	Disposal must be in accordance with current national and local regulations, which may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. Chemical residues generally count as special waste. Packaging may contain residues of the product and should be treated accordingly. Do not dump this material into sewers, on the ground, or into any body of water.

Section 14: Transport information

14.1 UN Number	The mixture is not classified.
14.2 UN proper shipping name	The mixture is not classified.
14.3 Transport hazard class(es)	The mixture is not classified.
14.4 Packing group	The mixture is not classified.
14.5 Environmental hazards	Not classified as environmentally hazardous
14.6 Special precautions for user	No dangerous good in sense of transport regulations.

14.7	**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable

Section 15: Regulatory information

15.1	**Safety, health and environmental regulations/legislation specific for the substance or mixture**	Please refer to any other regulations of each country.

Section 16: Other information

Indication of changes	Revisions: 01. April. 2022 Section 1 and 9.
Abbreviations and acronyms	GHS: Globally Harmonized System of Classification and Labelling of Chemicals ACGIH: American Conference of Governmental Industrial Hygienists DNEL: Derived No Effect Level PNEC: Predicted No Effect Concentration STOT: Specific Target Organ Toxicity
Training advice	Read this Safety Data Sheet before handling the substance.

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