

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

Printing date: 28.01.2021

Date of compilation / revision: 28.01.2021

Version/revision number: 10

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

- **1.1 Product identifier**
- **Trade name: UBE NYLON 1024JI2**
- **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.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**



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
 The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**  
 maleic anhydride
- **Hazard statements**  
 H317 May cause an allergic skin reaction.
- **Precautionary statements**  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **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: 3622-84-2 EINECS: 222-823-6 Reg.nr.: 01-2119486780-29-0000	N-butylbenzenesulphonamide (BBSA) Aquatic Chronic 3, H412	<15%
CAS: 108-31-6 EINECS: 203-571-6 Reg.nr.: 01-2119472428-31-XXXX	maleic anhydride ⚠ Resp. Sens. 1, H334; STOT RE 1, H372 ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1A, H317	<0.1%

- **Non dangerous components**

25038-54-4   Polyamide 6	>67%
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- **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.  
 Immediately remove any clothing soiled by the product.
- **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.  
 Supply fresh air and to be sure call for a doctor.  
 In case of unconsciousness place patient stably in side position for transportation.
- **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.  
 Immediately wash with water and soap and rinse thoroughly.
- **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.

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Do not induce vomiting; call for medical help immediately.

**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)

Carbon Dioxide (CO<sub>2</sub>)

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

Maleic anhydride

Hydrogen cyanide (HCN)

Ammonia (NH<sub>3</sub>)

**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.

### 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.

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.

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### SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

Keep away from foodstuffs, beverages and feed.  
Do not eat, drink, smoke or sniff while working.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.

Melted 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

### 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 melting process.

**8.1 Control parameters**
**Ingredients with limit values that require monitoring at the workplace:**
**108-31-6 maleic anhydride**

WEL (Great Britain)	Short-term value: 3 mg/m <sup>3</sup>
	Long-term value: 1 mg/m <sup>3</sup>
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**DNEL (workers)**
**3622-84-2 N-butylbenzenesulphonamide (BBSA)**

Inhalative	DNEL (Long-term exposure – systemic effects)	2.5 mg/m <sup>3</sup>
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**DNEL (general population)**
**3622-84-2 N-butylbenzenesulphonamide (BBSA)**

Oral	DNEL(Systemic effects-Long-term)	0.26 mg/Kg bw/day
Inhalative	DNEL (Systemic effects-Long-term exposure)	0.45 mg/m <sup>3</sup>

**PNECs**
**3622-84-2 N-butylbenzenesulphonamide (BBSA)**

PNEC(fresh water)	0.037 mg/L
PNEC (marine water)	0.0037 mg/L
PNEC (intermittent release)	0.37 mg/L
PNEC (soil)	0.091 mg/kg d.w
PNEC (STP)	60 mg/L
PNEC (Sediment (freshwater))	0.563 mg/Kg sed

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PNEC (sediment (marine water))	0.056 mg/kg sed
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· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **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

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:**

Not necessary if room is well-ventilated.

Unnecessary under normal processing

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**

Use protective gloves according to EN 374

Molten state:

At treating hot polymer or molding process, heat resistant gloves should be required.



Protective gloves

Heat protection gloves

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

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

· **Material of gloves**

Butyl rubber, BR

Recommended thickness of the material:  $\geq 1.5$  mm

Break time: >480 min

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.

· **Eye protection:**



Safety glasses with side-shields (frame goggles) (e.g. EN 166)

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

· **Skin and body protection:**

Protective work clothing

Molten state:

Heat-resistant protective clothing

· **Limitation and supervision of exposure into the environment**

Prevent the material from spreading into the environment.

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### 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>	White
<b>Odour:</b>	Light
<b>Odour threshold:</b>	Not applicable

<b>· pH-value:</b>	7.5-8.5 (BBSA) Not applicable because it is a solid mixture
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**· Change in condition**

<b>Melting point/freezing point:</b>	-30 °C (BBSA) Not determined for mixture.
<b>Initial boiling point and boiling range:</b>	314 °C (a 1013 hPa (BBSA))

<b>· Flash point:</b>	>200 °C (Closed cup (BBSA))
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<b>· Flammability (solid, gas):</b>	Product is not flammable BBSA: Product is not flammable.
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<b>· Ignition temperature</b>	Not determined for mixture.
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<b>· Decomposition temperature:</b>	Not determined for mixture.
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<b>· Auto-ignition temperature:</b>	Not determined for mixture. BBSA: No exam necessary because the flash point goes above 200 ° C.
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<b>· Explosive properties:</b>	Product does not present an explosion hazard.
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<b>· Explosion limits:</b>	Product does not present an explosion hazard. Product does not present an explosion hazard. Not oxidising. (BBSA)
<b>Lower:</b>	
<b>Upper:</b>	
<b>· Oxidising properties</b>	

<b>· Vapour pressure at 20 °C:</b>	0.0397 mPa (BBSA)
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<b>· Density:</b>	1.15 g/cm <sup>3</sup> (BBSA) Not determined for mixture. Not applicable because it is a solid mixture Not applicable because it is a solid mixture
<b>Relative density at 20 °C</b>	
<b>Vapour density</b>	
<b>Evaporation rate</b>	

<b>· Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
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<b>· Partition coefficient: n-octanol/water at 20 °C:</b>	2.05 log POW (BBSA)
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<b>· Viscosity:</b>	180 mPas (BBSA) Not applicable because it is a solid mixture No further relevant information available.
<b>Dynamic at 20 °C:</b>	
<b>Kinematic:</b>	
<b>· 9.2 Other information</b>	
<b>· Molecular mass</b>	(BBSA): 213,3 g/mol

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### SECTION 10: Stability and reactivity

- **10.1 Reactivity**

As BBSA: Thermal decomposition can lead to the escape of irritating gases and vapours.

- **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)

Ammonia

- **Additional information:**

As BBSA: On burning: release of toxic and corrosive gases/vapours (sulphur oxides).

### 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:**

#### 3622-84-2 N-butylbenzenesulphonamide (BBSA)

Oral	LD50	2,070 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>4.066 mg/l (rat)

#### 108-31-6 maleic anhydride

Oral	LD50	1,090 mg/kg (rat)
Dermal	LD50	2,620 mg/kg (rabbit)
Inhalative	LC50/4 h	>4.35 mg/l (rat)

- **Primary irritant effect:**

- **Skin corrosion/irritation**

Mixture:

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

Components:

BBSA: Not classified with the available data.

Maleic Anhydride:

Species: rabbit

Result: corrosive

- **Serious eye damage/irritation**

Mixture:

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

Components:

BBSA: Not classified with the available data.

Maleic Anhydride:

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**Trade name: UBE NYLON 1024J12**

Species: rabbit

Result: corrosive

- **Respiratory or skin sensitisation**

May cause an allergic skin reaction.

- **Repeated dose toxicity**

Components:

Maleic Anhydride:

Route of exposure: inhalation

Target organs: respiratory system

Assessment: The substance is classified as specific target organ toxicant, repeated exposure, category 1.

<b>3622-84-2 N-butylbenzenesulphonamide (BBSA)</b>		
Oral	NOEL	52 mg/kg (rat female) (90 dias) 52 mg/kg (rat male) (90 dias)
Dermal	NOAEL	>1,000 mg/kg bw/day (rat) (28 dias)

- **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:**

Mixture:

No further relevant information available.

Components:

BBSA:

Harmful to aquatic organisms with long lasting effects.

<b>3622-84-2 N-butylbenzenesulphonamide (BBSA)</b>	
EC50(72h)	49 mg/L (Selenastrum capricornutum)
LC50 (96 h)	>38 mg/l (Danio rerio)
EC50 (48 h)	56 mg/l (daphnia magna)

<b>108-31-6 maleic anhydride</b>	
NOEC(21d)	10 mg/L (daphnia magna)
EC50(72h)	74.35 mg/L (Pseudokirchnerella subcapitata)
EC50	77 mg/l /21d (daphnia magna)
LC50 (96 h)	75 mg/l (Oncorhynchus mykiss)
EC50 (48 h)	42.81 mg/l (daphnia magna)

- **12.2 Persistence and degradability**

Mixture:

No further relevant information available.

Components:

Maleic Anhydride:

Easily biodegradable: 93%. After 11 days.

BBSA:

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- Not easily biodegradable
- **12.3 Bioaccumulative potential**  
Mixture:  
No further relevant information available.  
Components:  
BBSA: log Pow=2.01 (20-25°C)  
No indication of bio-accumulation potential  
Maleic Anhydride:  
Low potential based on the log Kow  
log Pow:2.01 (20 °C)
- **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  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Disposal must be made according to official regulations.
- **Uncleaned packaging:**
- **Recommendation:**  
Packaging may contain residues of the product and should be treated accordingly.  
Disposal must be made according to official regulations.

### SECTION 14: Transport information

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

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<b>UN "Model Regulation":</b>	Not applicable
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### 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:**  
For the mixture:  
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.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H332 Harmful if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H412 Harmful 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.
- **Classification according to Regulation (EC) No 1272/2008**  
-Physico-chemical hazards: the classification of the mixture has been done based on tests.  
-Health hazards: the classification of the mixture has been done based on information of ingredients.  
-Environment hazards: the classification of the mixture has been done based on information of ingredients.
- **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 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)  
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 - oral – Category 4  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· **Sources** Safety data sheets of raw material suppliers.· \* **Data compared to the previous version altered.**

Section 2: Classification update.

Section 3: Updating of the dangerousness of the components.

Section 8: Data updated.

Section 11: Updated information on toxicological effects.

Section 12: Updated the aquatic toxicity data

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