

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

Printing date: 07.09.2021

Date of compilation / revision: 07.09.2021

Version/revision number: 5

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

- **1.1 Product identifier**
- **Trade name: UBESTA 3020IX14**
- **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**



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.

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- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P333+P313 If skin irritation or rash occurs: Get medical 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 Mixtures**
- **Description:** Mixture: consisting of the following components.

- **Dangerous components:**

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 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	<0.1%
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- **Non dangerous components**

CAS: 24937-16-4	Polyamide 12	>63%
CAS: 1333-86-4 EINECS: 215-609-9 Reg.nr.: 01-2119384822-32-XXXX	Carbon Black	<22%
	Others	<3%

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 tepid water for at least 15 minutes
 If redness, itching or burning sensation develops, do not rub eyes and immediately get medical attention.

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- **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 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 (CO₂)
Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
Maleic anhydride
Hydrogen cyanide (HCN)
Ammonia (NH₃)
- **5.3 Advice for firefighters**
- **Protective equipment:**
Firefighters should wear appropriate protective equipment
Mouth 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 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.

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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.
 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

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
1333-86-4 Carbon Black (10-25%)

WEL (Great Britain)	Short-term value: 7 mg/m ³
	Long-term value: 3.5 mg/m ³

108-31-6 maleic anhydride (≥0.001-<0.1%)

WEL (Great Britain)	Short-term value: 3 mg/m ³
	Long-term value: 1 mg/m ³
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· **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:

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.
 Melted state:

Wear a respirator conforming to EN140 at least with Type A filter.

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.

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- **Hand protection**

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**

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.

- **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

- **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**

<ul style="list-style-type: none"> · Colour: · Odour: · Odour threshold: · Melting point/freezing point: · Boiling point or initial boiling point and boiling range · Flammability · Lower and upper explosion limit · Lower: · Upper: · Flash point: · Auto-ignition temperature: · Decomposition temperature: · pH · Viscosity: · Kinematic viscosity · Dynamic: 	<p>Black</p> <p>Light</p> <p>Not determined.</p> <p>173-183 °C (PA12) Not determined for mixture.</p> <p>Not determined for mixture.</p> <p>Product is not flammable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>330 °C (PA12 (UN 4.2 test combust) Not determined for mixture.</p> <p>Not determined for mixture.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p>
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<ul style="list-style-type: none"> · Solubility · water: Insoluble. · Partition coefficient n-octanol/water (log value) Not applicable. · Vapour pressure: Not applicable for being a solid · Density and/or relative density · Density: Not determined for mixture. · Relative density at 20 °C 1.01-1.02 (PA12) · Vapour density Not determined for mixture. Not applicable for being a solid
<ul style="list-style-type: none"> · 9.2 Other information · Appearance: · Form: Pellets · Important information on protection of health and environment, and on safety. · Explosive properties: Product does not present an explosion hazard. · Freezing point · Evaporation rate Not applicable.
<ul style="list-style-type: none"> · Information with regard to physical hazard classes · Explosives None · Flammable gases None · Aerosols None · Oxidising gases None · Gases under pressure None · Flammable liquids None · Flammable solids None · Self-reactive substances and mixtures None · Pyrophoric liquids None · Pyrophoric solids None · Self-heating substances and mixtures None · Substances and mixtures, which emit flammable gases in contact with water None · Oxidising liquids None · Oxidising solids None · Organic peroxides None · Corrosive to metals None · Desensitised explosives 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.

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- **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)
 Ammonia

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values relevant for classification:**

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)

- **Skin corrosion/irritation**
 Mixture:
 Based on available data, the classification criteria are not met.
 Components:
 Maleic Anhydride:
 Species: rabbit
 Result: corrosive
- **Serious eye damage/irritation**
 Mixture:
 Components:
 Maleic Anhydride:
 Species: rabbit
 Result: corrosive
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **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.
- **Additional toxicological information:**
- **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.
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
 No further relevant information available.

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11.2 Information on other hazards
Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity:

Mixture:

No further relevant information available.

Components:

108-31-6 maleic anhydride

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.

12.3 Bioaccumulative potential

Mixture:

No further relevant information available.

Components:

Maleic Anhydride:

Low potential based on the log Kow

log Pow:-2.61 (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 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 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.

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- **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"> · 14.1 UN number or ID number · ADR, ADN, IMDG, IATA 	The substance is not classified under transport regulations Not applicable
<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA 	The substance is not classified under transport regulations Not applicable
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class 	The substance is not classified under transport regulations Not applicable
<ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA 	The substance is not classified under transport regulations Not applicable
<ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: 	No
<ul style="list-style-type: none"> · 14.6 Special precautions for user 	Not applicable.
<ul style="list-style-type: none"> · 14.7 Maritime transport in bulk according to IMO instruments 	Not applicable.
<ul style="list-style-type: none"> · UN "Model Regulation": 	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.
- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57**
Product does not contain SVHCs.
- **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.

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- **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.

- **Training hints**

Specific training of workers to comply with the requirements specified in the Safety Data Sheet is required.

- **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 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

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

- **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: Update of substances with limit values.

Section 11: Toxicological data updated

Section 12: Updated the aquatic toxicity data