

Date: 27.4.2022

Former date: 12.9.2019

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier****Trade name**

UPM Formi EcoAce WB40  
UPM Formi EcoAce WB50  
UPM Formi EcoAce WB60

**Company product code**

Wood-plastic composite granulates.

**Reach registration number**

Not registered.

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

It is used for the production of injection moulding and extrusion products.

**Classification of economic activities (NACE)**

C222 Manufacturing of plastic materials

**Use categories (UC62)**

none

**The chemical can be used by the general public****The chemical is used by the general public only****1.3 Details of the supplier of the safety data sheet****Manufacturer, importer, other undertaking**

UPM-Kymmene Corporation

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**Telephone number**

+358 20 41 5113

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upmformi@upm.com

**Finnish Business ID (Y code)**

1041090-0

**1.4 Emergency telephone number**

**112**

Poison Information centre (in Finland), open 24 h daily  
PL 790 (Tukholmankatu 17)  
00029 HUS

tel. +358 9 471977 or +358 800 147111

**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

In accordance with current regulations (1272/2008 CLP), this substance is not classified as dangerous.

**2.2 Label elements**

EUH 208 Contains maleic anhydride. May produce an allergic reaction.

**2.3 Other hazards**

For the results of PBT/vPvB assessment, see point 12.6.  
The product does not contain any known or suspected endocrine disruptors.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

The product contains 40-60% Wood (softwood, CAS none), 35-55% polypropylene (CAS 9003-07-0), <5% carboxylated polypropylene (CAS number 25722-45-6, contains max. 0.099 % maleic anhydride CAS 108-31-6) and 0-2% other additives. Moisture <1.5%. On basis of tests on a corresponding product, the product contains < 0.001 % unbound and biologically available maleic anhydride and does not require classification as a skin sensitiser. Moisture <0.5%.

**Hazardous ingredients**

CAS/EC number and the registration number	Name of the ingredient	Concentration	Classification
108-31-6	Maleic anhydride	≤ 0.005 %  (< 0.001 % unbound and biologically active)	Acute Tox. 4, H302; Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Sens. 1A, H317; Resp. Sens. 1, H334; STOT RE 1, H372; EUH071  Specific concentration limit: Skin Sens. 1A, H317: ≥ 0,001 %

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures**

**Inhalation:** Move to fresh air. Get medical attention if symptoms appear.

**Skin contact:** Wash with water. Get medical attention if irritation occurs.

**Eye contact:** Rinse with plenty of water for several minutes. Get medical attention if irritation occurs.

**Ingestion:** Rinse mouth with plenty of water. By ingestion of large quantities endeavour to vomit. Get medical attention if symptoms appear.

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

Eye contact: Mechanical irritation possible.

**4.3 Indication of any immediate medical attention and special treatment needed**

No special treatment needed.

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media**

Water spray, foam, carbon dioxide

**5.2 Special hazards arising from the substance or mixture**

The product itself is non-flammable. If dried, flammable organic dust may form. The product is a solid mixture of wood particles, plastic and additives, that will burn if ignited or in contact with intense heat. Auto-ignition is possible several hours after processing if the material is not cooled down properly. Dust may be generated during processing. Dust is combustible and may be explosive in the presence of a spark or other ignition sources.

**5.3 Advice for firefighters**

In large fires or in confined areas, use appropriate protective equipment and a self-contained breathing apparatus.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Handle carefully to avoid dust formation. Remove all ignition sources.

Dust filters are recommended.

**6.2 Environmental precautions**

Minimize contamination of drains, surface and ground waters.

**6.3 Methods and material for containment and cleaning up**

Use appropriate tools to collect the product for disposal. Flush the area with water.

- 6.4 Reference to other sections**  
Personal protection equipment: see Section 8.2  
Disposal: see Section 13

## SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling**  
Avoid dust formation. Avoid breathing of dust.
- 7.2 Conditions for safe storage, including any incompatibilities**  
Storage in dry, cool and well-ventilated place protected from direct sunlight and away from highly flammable substances / materials.  
No legal demands concerning storage.
- 7.3 Specific end use(s)**  
Not reported.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### National occupational exposure limit values

Organic dust: HTP 5 mg/m<sup>3</sup> (8 h) ja 10 mg/m<sup>3</sup> (15 min).

Maleic anhydride: HTP 0.1 ppm or 0.41 mg/m<sup>3</sup> (8 h) and 0.2 ppm or 0.81 mg/m<sup>3</sup> (15 min).

#### Other limit values

UK (WEL, 8 h TWA): 10 mg/m<sup>3</sup> (total inhalable dust), 4 mg/m<sup>3</sup> (respirable dust)

Maleic anhydride:

UK (WEL): 1 mg/m<sup>3</sup> (8 h TWA), 3 mg/m<sup>3</sup> (15 min)

#### DNEL

Chemical safety assessment has not been performed for the product, no information available about ingredients.

#### PNEC

Chemical safety assessment has not been performed for the product, no information available about ingredients.

### 8.2 Exposure controls

#### Appropriate engineering controls

Keep containers tightly closed and away from ignition sources and heat.

#### Eye/face protection

Normally not needed. In dusty conditions, use eye protection.

#### Skin protection

Normally not needed.

#### Hand protection

Normally not needed.

#### Respiratory protection

Normally not needed.

#### Thermal hazards

The product itself is stable and non-flammable. If dried, flammable organic dust may form.

#### Environmental exposure controls

Prevent large amounts from entering sewers or environment.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

<b>Appearance</b>	solid, white or brown
<b>Odour</b>	mild wood odour or odourless
<b>Odour threshold</b>	Not applicable.
<b>pH</b>	Not applicable
<b>Melting point</b>	130-170 °C
<b>Initial boiling point and boiling range</b>	Not applicable.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Unknown
<b>Flammability (solid, gas)</b>	Non-flammable when moist.
<b>Upper/lower flammability or explosive limits</b>	Not applicable.
<b>Vapour pressure</b>	Not applicable.
<b>Vapour density</b>	Not applicable.
<b>Relative density</b>	Unknown.
<b>Particle characteristics</b>	Not determined.
<b>Solubility(ies)</b>	Insoluble in alcohols, diethyl ether, acetone, etc. Insoluble in cold and hot water.
<b>Partition coefficient: n-octanol/water</b>	Not applicable.
<b>Decomposition temperature</b>	Unknown
<b>Viscosity</b>	Not applicable.
<b>Explosive properties</b>	Dust may be explosive in the presence of ignition sources.
<b>Oxidising properties</b>	Not oxidising

**9.2 Other information**  
Density 0.9-1.1 g/cm<sup>3</sup>**SECTION 10: STABILITY AND REACTIVITY**

- 10.1 Reactivity**  
Not reactive under normal use and storage conditions.
- 10.2 Chemical stability**  
The product is stable.
- 10.3 Possibility of hazardous reactions**  
No hazardous reactions under normal use and storage conditions.
- 10.4 Conditions to avoid**  
Keep away from ignition sources and heat.
- 10.5 Incompatible materials**  
None.
- 10.6 Hazardous decomposition products**  
Burning may produce toxic gases e.g. carbon monoxide.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

There is no toxicological data available for this specific product: The product is not classified as acute toxic.

#### Skin corrosion/irritation

The product is not classified as corrosive or an irritant.

#### Serious eye damage/irritation

The product is not classified as an irritant or hazardous for the eye.

#### Respiratory or skin sensitisation

The product is not classified as sensitising. May produce an allergic reaction. The product contains small amounts of a skin sensitiser, but its unbound concentration in the product is below the specific concentration limit for classification (< 10 ppm or 0.001 %). While the release of this substance from the polymer cannot be entirely ruled out, experience with similar polymer products excludes allergic reactions in sensitised persons at lower concentrations.

#### Germ cell mutagenicity

The product is not classified as a mutagen.

#### Carcinogenicity

The product is not classified as a carcinogen.

#### Reproductive toxicity

The product is not classified as a reproductive toxicant.

#### STOT-single exposure

The product is not classified as toxic to specific target organs.

#### STOT-repeated exposure

The product is not classified as toxic to specific target organs.

#### Aspiration hazard

The product is not classified as causing aspiration toxicity.

#### Other information

The product does not contain any known or suspected endocrine disruptors.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

There is no ecotoxicological data available for this specific product. The product is not classified as dangerous for environment.

### 12.2 Persistence and degradability

Hardly biodegradable in soil based on information from similar products. Chemical degradation produces carbon oxides (CO, CO<sub>2</sub>) and water.

### 12.3 Bioaccumulative potential

No bioaccumulative potential.

### 12.4 Mobility in soil

Partly insoluble in water.

### 12.5 Results of PBT and vPvB assessment

Chemical safety assessment has not been performed for the product, no information available about ingredients.

### 12.6 Endocrine disrupting properties

The product does not contain any known or suspected endocrine disruptors.

### 12.7 Other adverse effects

Not reported.

### SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**  
Disposal according to current national and local official regulations.

### SECTION 14: TRANSPORT INFORMATION

- 14.1 UN number**  
Not classified for transportation.
- 14.2 UN proper shipping name**  
Not applicable.
- 14.3 Transport hazard class(es)**  
Not applicable.
- 14.4 Packing group**  
Not applicable.
- 14.5 Environmental hazards**  
Prevent large amounts from entering sewers or waterways.
- 14.6 Special precautions for user**  
Keep away from ignition sources and heat.
- 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**  
No specific regulations.
- 15.2 Chemical safety assessment**  
Not registered and no chemical safety assessment performed.

### SECTION 16: OTHER INFORMATION

#### Glossary of abbreviations

HTP value	concentration known to be hazardous (Finland)
TWA	time-weighted average
WEL	workplace exposure limit

#### References

Material safety data by UPM  
Decree on Concentrations known to be Hazardous 654/2020 (HTP-arvot 2020), Finland  
EH40/2005 Workplace exposure limits (fourth edition 2020)

#### Information added, deleted or revised

- 1.4 Emergency numbers updated
- 2.2 EUH208 phrase added
- 2.3 Added content according to updated REACH Annex II requirements
- 3 Composition specified
- 8.1 Exposure limit values for maleic anhydride added
- 9.1 Added content according to updated REACH Annex II requirements
- 11 Added content according to updated REACH Annex II requirements and due to presence of maleic anhydride (Respiratory and skin sensitisation)
- 12.5 Updated information on PBT and vPvB assessment
- 12.6 Added content according to updated REACH Annex II requirements
- 14.4 Updated packing group information
- 16 Updated glossary of abbreviations, references, list of relevant hazard statements

**List of relevant hazard statements**

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
EUH071	Corrosive to the respiratory tract.