

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

UPM Formi EcoAce SPB 30, 40, 50
UPM Formi Pro HP 30, 40, 50
UPM Formi Pro SP 30, 40, 50
UPM Formi Pro EFP 30, 40, 50

Company product code

Cellulose fibre 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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Postcode and post office FI-00101 Helsinki

Telephone number +358 20 41 5113

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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 30–50% cellulose (CAS 9004-34-6), 50–70% polypropylene (CAS 9003-07-0), < 5% carboxylated polypropylene (CAS number 25722-45-6, contains max. 0.099 % maleic anhydride CAS 108-31-6) and 0–10% other additives. 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 cellulose fibres, 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/m³ (8 h) and 10 mg/m³ (15 min).
Maleic anhydride: HTP 0.1 ppm or 0.41 mg/m³ (8 h) and 0.2 ppm or 0.81 mg/m³ (15 min).

Other limit values

UK (WEL, 8 h TWA): 10 mg/m³ (total inhalable dust), 4 mg/m³ (respirable dust)
Maleic anhydride:
UK (WEL): 1 mg/m³ (8 h TWA), 3 mg/m³ (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**

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

9.2 Other information
Density 1.0-1.2 g/cm³**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, CO₂) 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

1.1 Product names added

1.4 Emergency numbers updated

2.1 Statement about outdated 67/548/EEC-1999/45/EC classification removed

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, DNEL and PNEC statements updated

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.