

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier**

**Trade name**

UPM Formi HP 20, 30, 40, 50  
 UPM Formi SP 20, 30, 40, 50  
 UPM Formi EFP 20, 30, 40, 50  
 UPM Formi EXP 20, 30, 40, 50  
 UPM Formi EcoAce HPB 20, 30, 40, 50  
 UPM Formi EcoAce SPB 20, 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

**Street address**

Alvar Aallonkatu 1

**Postcode and post office**

FI-00100 Helsinki

**Post-office box**

P.O Box 380

**Postcode and post office**

FI-00101 Helsinki

**Telephone number**

+358 20 41 5113

**Telefax**

**E-mail address**

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 9 4711

**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.  
 Classification according to 67/548/EEC-1999/45/EC: no classification.

**2.2 Label elements**

No labelling: in accordance with current regulations, this substance has not been classified as dangerous.

**2.3 Other hazards**

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

The product contains 20-60% cellulose (CAS 9004-34-6), 40–80% polypropylene (CAS 9003-07-0), <5% carboxylated polypropylene (Maleic anhydride, CAS number 25722-45-6) and 0-10% other additives. Moisture <0.5%.

<b>Hazardous ingredients</b>			
<b>CAS/EC number and the registration number</b>	<b>Name of the ingredient</b>	<b>Concentration</b>	<b>Classification</b>

**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/m<sup>3</sup> (8 h) ja 10 mg/m<sup>3</sup> (15 min).**Other limit values**UK (TWA): 10 mg/m<sup>3</sup> (total inhalable dust), 4 mg/m<sup>3</sup> (respirable dust)**DNEL**

The product contains no hazardous ingredients.

**PNEC**

The product contains no hazardous 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>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>Auto-ignition temperature</b>	Approximately 180 °C
<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 1.0-1.2 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 a corrosive or irritant.

**Serious eye damage/irritation**

The product is not classified irritant or hazardous for eye.

**Respiratory or skin sensitisation**

The product is not classified as a sensitive.

**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**

**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**

Hardly biodegradable, thus not considered to fulfill criteria for PBT or vPvB substances.

**12.6 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.

Trade name: UPM Formi

Date: 12.09.2019

Former date: 22.06.2017

**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

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**SECTION 15: REGULATORY INFORMATION**

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**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.

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**SECTION 16: OTHER INFORMATION**

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**Glossary of abbreviations**

HTP value      concentration of impurity in workplace air known to be hazardous  
TWA              time-weighted average

**References**

Material safety data by UPM  
Degree on Concentrations known to be Hazardous (557/2009) (HTP-arvot 2009)

**List of relevant R phrases**

None.