

Safety Data Sheet



EVERYTHING MATTERS

According to Regulation (EC) No. 1907/2006 (REACH) and (EC) No. 1272/2008

 **Product Name:**
UBQ™ Masterbatches and Compounds

 **Sub Category:**
Polyolefin based-All grades

SECTION 1

Identification of the Substance and of the Company

1.1 Product Name: UBQ™ Masterbatches and Compounds–Polyolefin based-All grades

- **Chemical Family:** Thermoplastic and Organic substance
- **Product Description:** A composite of organic substances and mix of Polyolefins with trace minerals.
- **Physical Appearance:** Dark pellets with slight odor.

1.2 Relevant identified and advised uses of the substance or mixture:

- **Sector of Use:**
SU3 Industrial uses: Use of substances as is or in preparations at industrial sites
SU12 Manufacture of plastics products, including compounding and conversion
- **Product Category:** PC32 Polymer preparations and compounds
- **Recommended Use:** May be used to produce molded or extruded articles or as a component of other industrial products.

1.3 Details of the supplier of the safety data sheet

- UBQ Materials Ltd.,
- 30 Ibn-Gabirol St.
- 6407808 Tel-Aviv
- Israel
- Emergency Phone No.+972-50-6494255
- Fax: +972-8-9989280
- Email: msds@ubqmaterials.com

SECTION 2

Hazards Identification

2.1 Classification according to Regulation (EC) No 1272/2008

Based on available data, the substance is not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

- The product is not under obligation of labelling as per Regulation (EC) 1272/2008 (CLP) nor by GHS.
- The product, in the form in which it is marketed, does not present any health hazard if inhaled, taken in or in contact with the skin according to Regulation (EC)1272/2008 Annex I part 1.3.4.1

2.3 Hazard pictograms: none


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2.4 Hazard statements:

- No hazards resulting from material as supplied
- All ingredients are bonded and potential for hazardous exposure is minimal

2.5 Other hazards: Results of PBT and vPvB assessment:

Not applicable.

SECTION 3

Composition/Information on Ingredients

3.1 Preparation:

- Composite made up of organic substances and a mix of polymer compounds with trace minerals.
- No substances included in the candidate list under article 59(1.10) of the REACH regulation EC1907/2006 (known as SVHC) were intentionally added in concentration > 0.1% w/w.

3.2 Ingredient:

Chemical Name	CAS#	EC#	1272/2008	%w/w
Polyolefin	9002-86-2 9003-07-0	---	None	10-80
UBQ powder	N/A	---	None	70-90
Additives (trade secret)	---	---	---	<20

Remaining ingredients are proprietary, non-hazardous and/or present at amounts below reportable limits.

SECTION 4

First Aid Measures

4.1 Description of first aid measures

General information:

- No special measures required.
- The usual precautionary measures are to be adhered to when handling chemicals.

Skin contact:

- Generally, the product does not irritate the skin.
- After contact with the molten product, cool rapidly with cold water.
- Do not pull solidified product off the skin.
- Thermal burns require immediate medical attention.
- Grease-like processing vapor condenses on ventilation ductwork, molds, and other surfaces and can cause irritation and injury to the skin. If skin irritation continues, consult a doctor.

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Inhalation:

- Take affected persons into fresh air.
- Processing vapors may cause irritation to the eyes, skin, and respiratory tract.
- In cases of severe exposure, nausea and headache may occur.
- If complications occur after processing vapors have been inhaled, seek medical attention.

Eye contact:

- Rinse opened eye for several minutes under running water. Remove any contact lenses.
- If symptoms persist, consult doctor.

Ingestion:

- Rinse out mouth and then drink plenty of water.
- If vomiting occurs; if vomiting person is laying on their back, they should be turned onto their side.
- Don't give anything to drink an unconscious person.
- Do not induce vomiting unless directed to do so by a medical professional.
- Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5

Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing agents: Water with full jet.

5.2 Special hazards arising from the substance or mixture

- Formation of toxic gases is possible during heating or in case of fire.
- In case of fire, the following can be released: CO_x, NO_x, HCl Hydrocarbons and some other gases/vapors

5.3 Special protective equipment for fire fighters:

Wear self-contained respiratory protective devices. Wear fully protective suit.

5.4 Additional information

Dispose of fire debris and contaminated firefighting water in accordance with official regulations. Fire may produce irritating gases and dense smoke. Avoid accumulation and dispersion of dust. High dust concentrations have a potential for combustion or explosion.

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SECTION 6

Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

- Avoid formation of dust.
- Particular danger of slipping on leaked/spilled product.
- Wear protective clothing (see Section 8).

6.2 Environmental precautions:

- Do not allow to enter sewers, or surface or ground water.
- Do not allow to penetrate the ground/soil.

6.3 Methods and material for containment and cleaning up:

- Pick up mechanically. Send for recovery or disposal in suitable receptacles.

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.

SECTION 7

Handling and Storage

7.1 Precautions for safe handling

- At all stages of the operation, do not exceed the temperature at which decomposition into dangerous substances occur.
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of dust. In case of dust formation wear a dust mask.

Information about fire and explosion protection:

- Keep ignition sources away – smoking is prohibited in areas where this material is handled, stored, and processed.
- Protect from heat.
- Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

- Store in cool, dry place in tightly closed receptacles.
- Keep away from heat and direct sunlight.

Requirements to be met by storerooms and receptacles:

- Store in a cool location.
- Store only in the original receptacle.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions: None.

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7.3 Specific end use(s)

- Spilled material may create slipping hazard.
- Molten plastic can cause severe thermal burns.
- Secondary operations, such as grinding, sanding, or sawing, can produce dust which may present an explosion or respiratory hazard.

SECTION 8

Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Ingredient	CAS#	OSHA TWA	NIOSH PEL	EU
Polyolefins	9002-88-4 9003-07-0	mg/m ³ total dust 10	Not established	Not established
Additives	N/A	- - -	---	---
UBQ™ powder	N/A	*mg/m ³ total dust 10	---	---

*self-evaluation

8.2 Exposure controls

General protective and hygienic measures:

- The usual precautionary measures are to be adhered to when handling chemicals.
- Do not eat, drink, or smoke while working with, or near, materials.

Respiratory protection: Not necessary if space is well-ventilated.

Protection of hands:

- Chemical-resistant, impervious gloves complying with an approved standard should be worn when handling the material.
- Use additional heat protection gloves when handling hot molten material.

Eye protection: Safety glasses (e.g. EN 166)

Body protection: Protective work clothing should be worn, depending on the activity and possible exposure (e.g. against splashes of hot molten material, or in case of dust).

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SECTION 9

Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Form	Pellets with slight odor (Master-Batch)
Color	Dark
Odor	Specific
Odor threshold	Not determined
pH-value	Not applicable
Melting point/Melting range	Not determined
Boiling point/Boiling range	Not determined
Flash point	Not applicable
Flammability (solid, gaseous)	Not determined
Auto ignition temperature	Product is not self-igniting
Decomposition temperature	≥220 °C
Danger of explosion	Hard to explode Din EN 1404-3 and 14034-3/A1
Explosion limits	Lower: 150 g/m ³
Vapour pressure	None
Vapour density	Not applicable
Density	0.9-1.2gr/cm ³
Evaporation rate	Not applicable
Solubility in water	Insoluble
Partition coefficient (n-octanol/water)	Not determined
Organic solvents contents	0.0 %
Solids content	100.0 %

SECTION 10

Stability and Reactivity

10.1 Chemical stability

Thermal decomposition / conditions to be avoided:

- No decomposition if used according to specifications.
- Secondary operations, such as grinding, sanding, or sawing can produce dust which may present an explosion or respiratory hazard.
- Avoid accumulation and dispersion of dust. High dust concentrations have a potential for combustion or explosion.

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10.2 Possibility of hazardous reactions: Reacts with strong acids and oxidizing agents.

10.3 Conditions to avoid

- Toxic fumes may be released if heated above the decomposition point.
- No special precautions are necessary if used as recommended.
- Grounding of equipment is recommended to avoid electrostatic charge.

10.4 Incompatible materials: Strong acids and oxidizing agents.

10.5 Hazardous decomposition products

CO_x, NO_x, Hydrocarbons and some other gases/vapors

10.6 Hazardous polymerization: will not occur.

SECTION 11

Toxicological Information

11.1 Information on toxicological effects-Acute toxicity

Hazardous ingredients	Oral (rat) LD ₅₀ -	Dermal (rat) LD ₅₀ -	inhalation LC ₅₀ (4hr) mg/l
Polyolefin	>5,000	>2000	Not established
UBQ™ powder	Not established	Not established	---

11.2 Primary irritant effect:

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

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

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

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

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

11.3 Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects to our knowledge and based on the information provided to us.

11.4 STOT:

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

repeated exposure: Based on available data, the classification criteria are not.

11.5 Chronic toxicity:

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.

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11.6 Notes

Carcinogenicity: Polyolefin

NTP: No

IARC: No

OSHA: No

UBQ™ powder: No information

SECTION 12

Ecological Information

12.1 Toxicity

Hazardous ingredients data	Fish LC ₅₀ - mg/l	Daphnia LD ₅₀ - mg/kg	LC ₅₀ (4 h) mg/l
Polyolefin	Not established	Not established	Not established
UBQ™ powder	Not established	Not established	---

12.2 Aquatic toxicity: No further relevant information available.

12.3 Persistence and degradability: No relevant information available.

12.4 Bio-accumulative potential: No relevant information available.

12.5 Mobility in soil: No relevant information available.

12.6 Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH): The product does not contain any substance fulfilling the PBT (persistent/bio accumulative/toxic) criteria or the vPvB (very persistent/very bio accumulative) criteria.

12.7 Behavior in environmental systems:

Additional information: Do not allow product to reach ground/course water, or sewage system

Bio accumulative potential: Bioaccumulation is unlikely because of its high molecular weight

Mobility in soil: No further relevant information available.

Performance in ecological sub-system: The master batch is regarded as biologically inert.

12.8 General notes:

- Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.
- The product may not be released into the environment without proper controls.

12.9 Waste Code: According to "European waste catalogue and hazards": 07 02 13. Waste plastic

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SECTION 13

Disposal Considerations

13.1 Waste treatment methods

Behavior in sewage processing plants: The product can be mechanically separated.

Recommendation: Disposal must be made according to official regulations.

13.2 Uncleaned packaging

Recommendation: Non-contaminated packaging may be recycled.

SECTION 14

Transport Information

14.1 UN-Number

- ADR, IMDG, IATA: Not classified as a dangerous good

14.2 UN proper shipping name

- ADR, IMDG, IATA: N/A

14.3 Transport hazard class(es)

- ADR, IMDG, IATA: Class N/A

14.4 Packing group

- ADR, IMDG, IATA: N/A

14.5 Environmental hazards: Not applicable.

14.6 Special precautions for user: Not applicable.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Not applicable.

14.8 UN "Model Regulation": N/A

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SECTION 15

Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- **Labelling according to Regulation (EC) No 1272/2008:**
 - Based on a leachate analysis of UBQ powder, (tested using TCLP method SW846 1311 and EN 12457), and a screen for inorganic, volatile organic compounds, semi-volatile organic compounds, herbicides, and pesticides, the substance is not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
 - PVC is not classified as a hazardous substance according to Regulation (EC) No 1272/2008.
- **Directive 2012/18/EU Named dangerous substances - ANNEX I**
 - None of the ingredients are listed as dangerous substances.
- **Substances of very high concern (SVHC) according to REACH Article 57:** None.

15.2 Chemical Safety Assessment: A Chemical Safety Assessment based on components that may leach from UBQ powder has been carried out, and there is no indication of hazard.

15.3 Other regulations, limitations and prohibitive regulations: PVC

OSHA Status	None
EPA Clean Air Act Status	None
EPA Clean Water Status	None
TSCA Status	Listed on the Inventory (40 CFR710) Listed
CERCLA RQ	None
SARA Title III Section 302 Section 313 Section 311/312	None

SECTION 16

Other Information

16.1 Ingredients Hazards:

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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16.2 Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration (US)
NIOSH	The National Institute for Occupational Safety and Health (US)
ADR	The European Agreement Concerning the International Carriage of Dangerous Goods by Road
DOT	Department of Transportation (US)
EPA	Environmental Protection Agency (US)
TESCA	Toxic Substance Control Act (US)
RID	International Rule for Transport of Dangerous Substances by Railway
IMDG	International Maritime Code for Dangerous Goods
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
GHS	Globally Harmonized System
EINECS	European Inventory of Existing Commercial Chemical Substances
CAS	Chemical Abstracts Service (division of the American Chemical Society)
LC₅₀	Lethal concentration, 50 percent
LD₅₀	Lethal dose, 50 percent
TWA	Time Weighted Average
MARPOL	International convention for the prevention of pollution from ships
PBT	Persistent, Bio accumulative, Toxic
vPvB	very Persistent and very Bio accumulative
SVHC	Substances of Very High Concern

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