

Date: 9 January 2018

Former date: 7 October 2016

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

1.1 Product identifier

Trade name

Fortum CIRCO® recycled PE

Company product code

-

Reach registration number

-

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

The uses of the chemical

Recycled plastic product/granulate for manufacturing of plastic products.

Classification of economic activities (NACE)

C20.1 - Manufacture of basic chemicals, fertilisers and nitrogen compounds, plastics and synthetic rubber in primary forms

Use categories (UC62)

33 Intermediates

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

Fortum Waste Solutions Oy

Street address

Kuulojankatu 1

Postcode and post office

11120 Riihimäki

Post-office box

P.O.B 181

Postcode and post office

11101 Riihimäki

Telephone number

+358 10 7551 625

Telefax

E-mail address

asiakaspalvelu1@fortum.com

Finnish Business ID (Y code)

0350017-4

1.4 Emergency telephone number

The general emergency number **112**

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

+358 9 471977 or +358 9 4711

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

1272/2008 (CLP)

Not classified.

67/548/EEC – 1999/45/ED:

Not classified.

2.2 Label elements
No pictogram required.

Signal Word: -

Hazard Statements

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Precautionary Statements:

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2.3 Other hazards
Hot, molten material can cause thermal burns.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

CAS/EC number and the registration number	Name of the ingredient	Concentration	Classification
CAS 9002-88-4	Ethene, homopolymer	80 - 100 %	-

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information: Immediately remove affected person from source of exposure. If the situation is unclear or when symptoms persist, seek medical attention.

Inhalation: If fumes from processing has been inhaled, remove victim to fresh air. Get medical attention if symptoms occur.

Skin contact: At room temperature, does not need to take any measures. If molten material gets on skin, cool rapidly with cool water for at least 20 minutes. Do not attempt to remove material from skin. Obtain medical treatment for thermal burn.

Eye contact: Promptly rinse eyes with plenty of clean water while lifting the eyelids. Continue to rinse for at least 15 minutes. Remove contact lenses from the eyes if easy to do and continue rinsing. Get medical attention if any discomfort or irritation persists. If molten material gets on eyes, cool rapidly with cool water for at least 20 minutes. Do not attempt to remove material. Obtain medical treatment for thermal burn.

Ingestion: Do not induce vomiting. Never make an unconscious person vomit or drink fluids. Get medical attention if any discomfort continues. The product is biologically inert and is not absorbed / accumulated to the body. Passes through the digestive system without effects.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: High concentrations of dust may cause respiratory irritation. Hot fumes from processing may irritate respiratory system.

Skin contact: High concentrations of dust may cause skin irritation. Molten material can cause thermal burns.

Eye contact: High concentrations of dust may cause eye irritation. Hot fumes from processing may irritate the eyes. Molten material can cause thermal burns.

Ingestion: No symptoms or adverse effects known. May cause blockage in the gastrointestinal system, if large amounts are swallowed.

4.3 Indication of any immediate medical attention and special treatment needed

No specific instructions.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Water mist, foam, dry chemical/powder, carbon dioxide.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this may spread the fire.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: During processing, heating or fire, toxic or harmful fumes/gases (CO, CO₂) may be formed.

Unusual Fire & Explosion Hazards: Not known.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing. Avoid fire-fighting water access to water courses or sewage system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid breathing dust or fumes. Keep unauthorized people away from the danger zone. Wear protective clothing (see section 8). Spilled product may cause a slipping hazard.

6.2 Environmental precautions

Avoid spilled material from entering drains or water courses.

6.3 Methods and material for containment and cleaning up

Granulates: Sweep up and place into clearly labelled containers for recovery or disposal (see section 13). Avoid generation and spreading of dust.

Hot/molten material: Let it cool/solidify and collect mechanically into clearly labelled containers for recovery or disposal.

6.4 Reference to other sections

Safe handling and storage (see section 7).

Exposure controls and personal protection (see section 8).

Disposal considerations (see section 13).

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

When handling the product follow the usual precautions and good industrial hygiene. Avoid spilling, skin and eye contact of hot, molten material. Avoid breathing process fumes. Avoid handling which leads to dust formation. Take precautionary measures against static discharges when there is a risk of dust explosion. Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Store in room temperature, in a dry place. Protect from direct sunlight. Keep away from heat and ignition sources.

Incompatible materials: see section 10.5.

7.3 Specific end use(s)

Not known.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1. National occupational exposure limit values

No suitable exposure limit values known.

8.1.2. Other limit values

Not known.

8.1.3. Limit values in other countries

Not known.

8.1.4. DNEL

No chemical safety assessment has been carried out.

8.1.5. PNEC

No chemical safety assessment has been carried out.

8.2 Exposure controls

8.2.1. Appropriate engineering controls

Ensure adequate ventilation, local exhaust ventilation if necessary.

8.2.2. Personal protection

8.2.2.1. Respiratory protection

Normally not needed. If ventilation is insufficient or dust/fumes are produced use suitable respiratory protection (CE approved air-purifying respirator with particle/gas filter (organic gases) AP2).

8.2.2.2. Hand protection

Normally not needed. When handling the hot product, use heat-resistant gloves. Seek recommendations from equipment supplier.

8.2.2.3. Eye/face protection

Normally not needed. If dust is generated during handling or there is a splash risk when handling the molten material, wear tightly fitting safety goggles conforming to EN 166.

8.2.2.4. Skin protection

Normally not needed. Remove any clothing that becomes contaminated and wash it before reuse.

8.2.3. Environmental exposure controls

Do not allow spilled material to enter drains or water courses.

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

Appearance	Solid, granulates/product
Odour	Odorless.
Odour threshold	Not determined.
pH	Not determined.
Melting point/freezing point	Not determined.
Initial boiling point and boiling range	Not determined.
Flash point	Not determined.
Evaporation rate	Not determined.
Flammability (solid, gas)	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	Not determined.
Solubility(ies)	Not soluble in water.
Partition coefficient: n-octanol/water	Not determined.
Auto-ignition temperature	Not determined.
Decomposition temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2 Other information

Not known.

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

Stable under normal conditions of storage and use.

10.2 Chemical stability

Stable under normal conditions of storage and use.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Avoid heat and other sources of ignition. Protect from direct sunlight. Take precautionary measures against static discharges.

10.5 Incompatible materials

Avoid oxidizing agents.

10.6 Hazardous decomposition products

During processing, heating or fire, toxic or harmful fumes/gases (CO, CO₂) may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

This product is not classified as acute toxic. No toxicological data available for the product itself.

Skin corrosion/irritation

This product is not classified as corrosive/irritant to skin. High concentrations of dust may cause skin irritation.

Serious eye damage/irritation

This product is not classified as corrosive/irritant to eyes. High concentrations of dust may cause eye irritation. Hot fumes from processing may irritate the eyes.

Respiratory or skin sensitisation

This product is not classified as sensitizer.

Germ cell mutagenicity

This product is not classified as mutagenic.

Carcinogenicity

This product is not classified as carcinogenic.

Reproductive toxicity

This product is not classified as toxic for reproduction.

STOT-single exposure

This product is not classified as toxic. High concentrations of dust may cause respiratory irritation. Hot fumes from processing may irritate respiratory system.

STOT-repeated exposure

This product is not classified as toxic for repeated exposure.

Aspiration hazard

This product is not classified as hazardous with aspiration.

Other information

May cause discomfort and/or blockage in the gastrointestinal system, if large amounts are swallowed. Contact with molten material can cause thermal burns.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Toxicity to aquatic organisms

This product is not classified as environmentally hazardous. No ecotoxicological data available for the product itself.

12.1.2. Toxicity to other organisms

This product is not classified as environmentally hazardous.

12.2. Persistence and degradability

12.2.1. Biological degradability

The product is not easily biodegradable.

12.2.2. Chemical degradability

Not known.

12.3. Bioaccumulative potential

The product is not expected to be bioaccumulating.

12.4. Mobility in soil

The product is not soluble in water.

12.5. Results of PBT and vPvB assessment

No chemical safety assessment has been carried out.

12.6. Other adverse effects

Plastic pellets may accumulate in the digestive systems of birds and aquatic organisms, possibly causing injury and/or starvation.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

The product is not hazardous waste.
Dispose of contents/container in accordance with local regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.2. UN proper shipping name

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14.3. Transport hazard class(es)

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14.4. Packing group

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14.5. Environmental hazards

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14.6. Special precautions for user

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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/legislation.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

6 October 2016: Translation into English according the Finnish language safety data sheet for the product.

Glossary of abbreviations

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References

Information from the manufacturer about the ingredients and the composition of the product.

Procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

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List of relevant hazard statements

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Training appropriate for workers

Read the instructions in this SDS.