

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

1.1 Product identifier

Trade name

PRE-ELEC TPU 18600

Company product code

TPU18600

Reach registration number

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Product definition

Mixture containing carbon black.

Also covers the nanoform of carbon black. In the product, carbon black is bound in the base polymer.

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

The uses of the chemical

Production of electrostatic conductive products

Classification of economic activities (NACE)

C20.16

Main intended use

PC-TEC-16 Polymer preparations and compounds

Industrial use

Yes

Professional use

Yes

Consumer use

No

1.3 Details of the supplier of the safety data sheet

Manufacturer, importer, other undertaking

PREMIX OY

Street address

Muovitie 4

Postcode and post office

FIN-05200 Rajamäki

Post-office box

P.O.Box 12

Postcode and post office

FIN-05201 Rajamäki

Telephone number

+358 9 878 041

Telefax

+358 9 878 04400

Web page

www.premixgroup.com

Finnish Business ID (Y code)

FI32443519

1.4 Emergency telephone number

Emergency telephone number (Europe): 112

Other countries: check local emergency number

Poison Information centre (Finland) open 24 h daily: +358 800 147 111 or +358 9 471 977

P.O. Box 790 (Tukholmankatu 17), 00029 HUS

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not classified as a hazardous mixture according the CLP regulation (EU 1272/2008).

2.2 Label elements

No labeling. In accordance with current regulations, this product has not been classified as hazardous.

2.3 Other hazards

Carbon black in particulate form (dust) is listed as a possible carcinogen to humans (group 2B) by the International Agency for Research on Cancer (IARC). In the product, carbon black is bound in the base polymer and exposure to dust containing carbon black can be ruled out in normal use.

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

PBT/vPvB assessment: see point 12.5.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixtures**

The product is a compound containing thermoplastic polyurethane and carbon black.

CAS/EC number and the registration number	Name of the ingredient	Concentration	Classification
CAS 1333-86-4 EC 215-609-9	Carbon black	10 – 30 %	Not classified, national occupational exposure limit value

Carbon black is in nanoform. In the product, carbon black is bound in the base polymer.

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

If the situation is unclear or symptoms persist, seek medical attention.

Inhalation

If symptoms occur, move the exposed person to fresh air and keep under observation. Get medical attention if symptoms persist or are severe.

Skin contact

Rinse with water. In case of skin contact with molten plastic, cool the skin rapidly with water. Do not attempt to remove plastic glued to burnt skin without medical assistance.

Eye contact

Immediately flush eyes with plenty of water. Carefully remove any particles remaining under the eyelids. Seek medical attention if eye irritation persists.

Ingestion

Do not induce vomiting. Rinse the mouth with water and give 1–2 glasses of water to drink. Get medical advice/attention if the exposed person feels unwell.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact with molten plastic causes thermal burns.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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

Water spray, foam, carbon dioxide (CO₂)

5.2 Special hazards arising from the substance or mixture

Oxides of carbon and hydrocarbon fragments.

5.3 Advice for firefighters

Wear appropriate protective equipment and self-contained breathing apparatus.

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

No special precautions needed.

6.2 Environmental precautions

Do not let the granules contaminate sewers, waters or soil.

6.3 Methods and material for containment and cleaning up

Sweep up the spill and place in suitable container for use or disposal.

- 6.4 Reference to other sections**
See section 7 for safe handling.
See section 8 for personal protective equipment.
See section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
Handle in accordance with good industrial hygiene and safety practices. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash hands before breaks and at the end of workday. Wash contaminated clothes before reuse.
- 7.2 Conditions for safe storage, including any incompatibilities**
Store in a dry place.
- 7.3 Specific end use(s)**
None reported.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****National occupational exposure limit values**

Carbon black CAS No.: 1333-86-4 **Limit value (long-term exposure)**

3.5 mg/m³ (8 h)
Country of origin: United Kingdom

3.5 mg/m³ (8 h)
Country of origin: Finland

Limit value (short-term exposure)

7 mg/m³ (15 min)
Country of origin: United Kingdom

7 mg/m³ (15 min)
Country of origin: Finland

Other limit values

N/A

DNEL

N/A

PNEC

N/A

8.2 Exposure controls**Appropriate engineering controls**

Provide adequate ventilation, use local exhaust ventilation if necessary.

Eye/face protection

Wear suitable protective goggles if there is a risk of eye contact.

Skin protection

Normal work clothing.

Hand protection

Use appropriate protective gloves when handling the product.

Respiratory protection

If it is not possible to reduce exposure levels to below exposure limit values by ventilation, use an appropriate respirator.

Thermal hazards

Molten plastic may cause thermal burns. Wear appropriate heat resistant protective clothing and gloves if needed.

Environmental exposure controls

Do not let the granules contaminate sewers, waters or soil.

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

Appearance	solid, granule
Odour	characteristic odour
Odour threshold	Not applicable.
pH	Not applicable
Melting point/freezing point	Melting range 140–170 °C
Initial boiling point and boiling range	Not applicable
Flash point	> 350 °C
Evaporation rate	Not applicable
Flammability (solid, gas)	Not flammable.
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Particle characteristics	Carbon black: Nanoform Comments: In the product, carbon black is bound in plastic and risk of exposure to carbon black as dust can be ruled out in normal use.
Relative density	1.1 - 1.3 g/cm ³
Solubility(ies)	Insoluble in water
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not applicable
Explosive properties	Not classified as explosive.
Oxidising properties	Not classified as oxidising.

9.2 Other information

None.

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

Not reactive under normal use and storage conditions.

10.2 Chemical stability

Stable under normal storage and handling conditions.

10.3 Possibility of hazardous reactions

No known dangerous reactions under normal use and storage conditions.

10.4 Conditions to avoid

Heat.

Do not allow product to remain in barrel at elevated temperatures for extended period of time.

- 10.5 Incompatible materials**
No known incompatible materials.
- 10.6 Hazardous decomposition products**
Oxides of hydrocarbon fragments.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

The product is not classified as acute toxic. There is no toxicity data available for the product as such.

Carbon black: LD50 (oral, rat): > 8000 mg/kg.

In the compound, the carbon black is bound in the base polymer.

Skin corrosion/irritation

The product is not classified as corrosive/irritant.

Serious eye damage/irritation

The product is not classified as corrosive/irritant.

Respiratory or skin sensitisation

The product is not classified as a sensitiser.

Germ cell mutagenicity

The product is not classified as mutagenic.

Carcinogenicity

The product is not classified as carcinogenic.

Carbon black is listed as a possible carcinogen to humans (group 2B) by the International Agency for Research on Cancer (IARC), but is not listed as a carcinogen by U.S. National Toxicity Program (NTP) or U.S. Occupational Safety and Health Administration (OSHA).

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 through single exposure.

STOT-repeated exposure

The product is not classified as toxic to specific target organs through prolonged or repeated exposure.

Aspiration hazard

The product is not classified as hazardous with aspiration.

11.2 Other information

Endocrine disruption

The product does not contain any known or suspected endocrine disruptors

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

The product is not classified as hazardous for environment. There is no ecotoxicity data available for the product as such.

Carbon black:

fish: LC50 (96 h) > 100 mg/L (Brachydanio rerio, OECD 203)

water flea: EC50 (24 h) > 5600 mg/L (Daphnia magna, OECD 202)

algae: EC50 (72 h) > 10.000 mg/L (Scenedesmus subspicatus).

In the compound, the carbon black is bound in the base polymer.

- 12.2 Persistence and degradability**
Not biodegradable.
- 12.3 Bioaccumulative potential**
Not bioaccumulative.
- 12.4 Mobility in soil**
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**
None reported.

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
The product is not considered hazardous waste.
Reuse or recycle if possible. Dispose of according to national and local regulations.

SECTION 14: TRANSPORT INFORMATION

- 14.1 UN number**
The product is not classified for transportation.
- 14.2 UN proper shipping name**
N/A
- 14.3 Transport hazard class(es)**
N/A
- 14.4 Packing group**
N/A
- 14.5 Environmental hazards**
none
- 14.6 Special precautions for user**
none
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
N/A

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

SECTION 16: OTHER INFORMATION

Changes to the previous version
13.10.2022: Update according to Annex II of the REACH Regulation ([EU] 2020/878).

Glossary of abbreviations
DNEL: Derived No-Effect Level
EC50: Effective concentration 50%
LC50: Lethal concentration 50%
LD50: Lethal dose 50%
PNEC: Predicted No-Effect Concentration

References
Previous version of the SDS 21.3.2022.
Decree on Concentrations known to be Hazardous 654/2020 (HTP-arvot 2020), Finland.
EH40/2005 Workplace exposure limits (4th ed, 2020).

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

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List of relevant hazard and precautionary statements

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Training appropriate for workers

Read the safety data sheet.

Other information

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