

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Mixture  
Trade name : TUBALL PLAST\_E PE 2 %

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : The additive for achieving electrical conductivity in thermoplastics.

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Europe:	Asia:	USA:
OCSiAl Europe S.a.r.l. L-3364, Leudelange 1, rue de la Poudrerie, Grand Duchy of Luxembourg T +352 27 99 03 73 <a href="mailto:europa@ocsial.com">europa@ocsial.com</a>	OCSiAl Asia Pacific Co., Ltd. Office 208, Pilot Plant Bldg., Incheon Technopark 12 Gaetbeol-ro, Yeonsu-gu, Incheon 406-840 Republic of Korea T +82 32 260 0407 <a href="mailto:asiapacific@ocsial.com">asiapacific@ocsial.com</a>	OCSiAl LLC 1804 Embarcadero Rd., Suite 202 Palo Alto, California 94303, USA T +1 415 906 5271 <a href="mailto:usa@ocsial.com">usa@ocsial.com</a>

### 1.4. Emergency telephone number

Europe:	Asia:	USA:
+352 27 99 03 73 09.00-17.00 GMT	+82 32 260 0407 01.00-09.00 GMT	+1 415 906 5271 09.00-17.00 GMT

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)	: Not classified
Signal word (CLP)	: Not classified
Hazard statements (CLP)	: Not classified
Precautionary statements (CLP)	: Not classified

### 2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Polyethylene (linear low density):		98	Not classified
1-hexene, polymer with ethene	(CAS No) 25213-02-9		Not classified
1-butene, polymer with ethene	(CAS No) 25087-34-7		Not classified
Carbon Nanotubes Single Wall	(CAS No) 308068-56-6 (REACH-no) Not yet available	2	Eye Irrit. 2, H319 STOT SE 3, H335

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## Safety Data Sheet

according to Regulation (EU) 2015/830

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : Move exposed person to fresh air. Keep person warm and at rest. Obtain medical attention if symptoms occur.
- First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Obtain medical attention if symptoms occur.
- First-aid measures after skin contact : Rinse with plenty of running water. Get medical attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Inhalation : Over-exposure by inhalation may cause respiratory irritation. (coughing)
- Ingestion : There is no known acute effect after over-exposure to this product.
- Skin contact : Heated material can cause thermal burns resulting in pain, redness, blistering.
- Eye contact : May cause eye irritation. (redness).

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Powder, alcohol-resistant foam.
- Unsuitable extinguishing media : None known.

#### 5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : Carbon monoxide, carbon dioxide, (dense) black smoke, aldehydes, organic acids.

#### 5.3. Advice for firefighters

Wear suitable protective clothing. Self-contained breathing apparatus.

Fight fire from protected location or maximum possible distance. Keep the area surrounding the fire cool. Avoid contact with heated material.

The material burns slowly with high smoke density and flaming drips. Fine powder forms flammable and explosive mixtures in air. Use water spray to keep fire-exposed containers cool.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable protective clothing.
- Emergency procedures : Avoid creating dusty conditions and prevent wind dispersal. Avoid contact with skin, eyes and clothes. Ensure adequate ventilation. Keep away from sources of ignition. Take precautionary measures against static discharges. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

##### 6.1.2. For emergency responders

- Protective equipment : Wear suitable protective clothing, gloves and eye/face protection.
- Emergency procedures : Provide adequate ventilation. Evacuate area. Avoid contact with skin and eyes.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

#### 6.3. Methods and material for containment and cleaning up

- For containment : Sweep up, shovel or vacuum.
- Methods for cleaning up : Use approved industrial vacuum cleaner for removal. Use explosion-proof electrical equipment. Collect in closed containers for disposal.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Additional hazards when processed : None known.
- Precautions for safe handling : Avoid contact with skin, eyes and clothes. Carry out operations in the open/under local exhaust/ventilation or with respiratory protection. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Take measures against static discharge. Keep away from sources of ignition.
- Hygiene measures : Do not eat, drink or smoke when using this product.

#### 7.2. Conditions for safe storage, including any incompatibilities



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according to Regulation (EU) 2015/830

Storage duration	: 2 years.
Storage conditions	: Keep away from incompatible materials and avoid specific conditions (see section 10). Avoid all possible sources of ignition (spark or flame). Containers should be grounded. Take precautionary measures against electrostatic discharges. Protect from (sun) light. Store in dry, cool, well-ventilated area at temperatures up to 50 °C. Not complying with these precautionary measures can lead to a degradation of the product which can result in inadequate product performance.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Personal protective equipment : Gloves. Protective clothing.



Materials for protective clothing	: Wear suitable protective clothing. Wear chemical resistant protective clothing (EN 14605) and protective shoes (S1P or S3).
Hand protection	: Wear suitable gloves tested to EN 374. When handling hot material, wear heat-resistant protective gloves that are able to withstand the temperature of molten product.
Eye protection	: Safety glasses with side shields.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Granular solid
Colour	: Black
Odour	: Odourless
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 115 to 132 °C
Freezing point	: No data available
Boiling point	: Decomposes >300 °C
Flash point	: >345 °C
Auto-ignition temperature	: >330 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.91 to 0.95 g/cm <sup>3</sup>
Solubility	: Insoluble in cold water
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions.

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according to Regulation (EU) 2015/830

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

Keep away from heat, sparks and flame. Exposure to (sun)light. Prevent formation of dust clouds. Take measures against static discharge.

### 10.5. Incompatible materials

Oxidizing agents.

### 10.6. Hazardous decomposition products

Highly dependent on temperature and environmental conditions, a variety of decomposition products may be formed, such as low molecular weight hydrocarbons and hydrocarbon oxidation products (acids, ketons, aldehydes).

### 10.7. Other information

At processing temperatures some degree of thermal degradation may occur.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity

Polyethylene (linear low density):	
LD50 oral rat	>5000 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: During heating and processing of the material small amounts of free monomer may evaporate resulting in airborne concentration that may cause irritating effects of the respiratory tract and nausea.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

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according to Regulation (EU) 2015/830

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

- Regional legislation (waste) : Dispose of this material and its container to hazardous or special waste collection point.
- Waste treatment methods : Disposal through controlled incineration or authorised waste dump.
- Sewage disposal recommendations : Prevent entry to sewers and public waters.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

No dangerous good in sense of transport regulations

#### 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

- Dangerous for the environment : No
- Marine pollutant : No
- Other information : No supplementary information available

#### 14.6. Special precautions for user

##### 14.6.1. Overland transport

No additional information available

##### 14.6.2. Transport by sea

No additional information available

##### 14.6.3. Air transport

No additional information available

##### 14.6.4. Inland waterway transport

No additional information available

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

##### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

CSA has not been established

### SECTION 16: Other information

- Other information : This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. It is the user's responsibility to take the mentioned precautionary measures and to ensure that this information is complete and sufficient for the use of this product.

Full text of H- and EUH-phrases:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H319	Causes serious eye irritation
H335	May cause respiratory irritation

SDS EU (REACH Annex II)

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