

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Identification of the product:

REF170

Use of the product:

Transparent, coloured and translucent or coloured and opaque strips or panels.

Company identification:OBEX Protection LTD.
Unit 5,
St. Modwen Park,
Norton Road,
Broomhall,
Worcester,
WR5 2QR.**Emergency telephone:**

01905 337800

Other hazards:**Potential health effects:**

Inhalation of vapours from heated product: risk of irritation of respiratory system. Irritation: Slightly irritating eyes

Physical and chemical hazards:

Thermal decomposition giving flammable and Toxic products. (refer to section 10.3 Hazardous decomposition products)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical nature:

Flexible Polyvinyl Chloride polymer

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2. HAZARDS IDENTIFICATION

Hazards statements

H360D May damage the unborn child

H372 Causes damage to organs through prolonged or repeated exposure

Hazard pictograms:

GHS08 health hazard



GHS07

**Signal word:**

H317 May cause an allergic reaction.

H361fd suspected of damaging fertility.

Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated Exposure if swallowed.

H410 very toxic to aquatic life with long lasting effects. H360D May Damage the unborn child

H412 Harmful to aquatic life with long lasting effects.

Ingredients classified as dangerous (entrapped into the polymeric matrix)

Composant	No CAS#	EC#	Concentration	Classification (CE) N °1272/2008
Phenol, isopropylated, phosphate (3:1)	68937-41-7	273-066-3	< 50%	H361fd Repr. 2, H373, cat 2, H410. Cat 1.
Dimethyltin Bis(ethylhexylthioglycolate)	57583-35-4	260-829-0	<0,5%	Repr. 2, H361d; STOT RE 1, H372 Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1A, H317 Aquatic Chronic 3, H412
Methyltin tris(2-ethylhexylthioglycolate)	57583-34-3	260-828-5	<0,5%	Acute Tox. 3, H311 Mut. 2, H341; Repr. 2, H361d; STOT RE 2, H373 Acute Tox. 4, H302; Skin Sens. 1, H317; STOT SE 3, H335 Aquatic Chronic 3, H412
Mono-n-octyltin tris(2-ethylhexyl thioglycolate)	27107-89-7	248-227-6	<0,5%	Skin Sens. 1B, H317, Aquatic Chronic 4, H413
Diocetyl tin bis(2-ethylhexyl thioglycolate)	15571-58-1	239-622-4	<0,5%	Repr. 1B, H360D; STOT RE 1, H372, Acute Tox. 4, H302; Skin Sens. 1A, H317

4. FIRST AID MEASURES

Inhalation:

Solid form:

Not applicable

Molten form:

Not applicable

Decomposition gases:

get medical attention immediately if required.

Move exposed person to fresh air.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact:

Solid form:

Wash with soap and water

Molten form:

Get medical attention immediately if required.

Do not attempt to remove the molten material from the affected area. Cool the area. Cool the area with cold running water for at least 15 minutes. Cover with a cold damp dressing.

Decomposition gases:

Get medical attention immediately if required.

Check for and remove any contact lenses.

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Ingestion:

Get medical attention immediately if the patient shows signs of distress.

Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Dry powder, water mist, carbon dioxide, or foam.

Extinguishing media which shall not be used for safety reasons:

High pressure water jet.

Special exposure hazards arising from combustion products and resulting gases:

Release of dense smoke.

Release of toxic and corrosive gases (Refer to section 10.3. Hazardous decomposition products). Do not release contaminated water into drains, soil, or surface water.

Sufficient measures must be taken to retain the water used for extinguishing

Special protective equipment for fire-fighters:

Acid resistant protective clothing.
Self-contained breathing apparatus with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Solid form:
Not applicable.
Molten form:
Do not touch until the material has cooled down.

Environmental precautions:

Do not release into drains, soil, or surface water.
Can be recycled several times.

7. HANDLING AND STORAGE

Handling:

Not applicable.

Storage:

The material should be stored at a temperature between 10°C and 40°C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protective equipment:

In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection:

Wear gloves protection against the heat in case of manipulating melted product.

Skin and body protection:

Wear safety glasses when manipulating melted product.

Eye/face protection:

Wear protective clothing (cotton) when manipulating melted product.

Environmental exposure controls:

Refer to section 13. DISPOSAL CONSIDERATIONS

Ingredients with limit values that require monitoring at the work place :

CAS: 27107-89-7 MonoOctyltintris(2-Ethylhexyl Thioglycolate)

Dermal Long-term - systemic effects 82 mg/kg bw/day (workers)

Inhalative Long-term - systemic effects 5.78 mg/m³ (workers)

CAS: 15571-58-1 DiOctyltinbis(2-Ethylhexyl Thioglycolate)

Inhalative Long-term - systemic effects 0.062 mg/m³ (workers)

CAS: 7659-86-1 2-ethylhexyl mercaptoacetate
Inhalative Long-term - systemic effects 4 mg/m³ (workers)

CAS: 57583-34-3 Methyltin tris(2-ethylhexylthioglycolate)

Dermal Long term - systemic effects 0.25 mg/kg bw/day (workers)

Acute - systemic effects 0.31 mg/kg bw/day (workers)

Inhalative Acute - systemic effects 0.11 mg/m³ (workers)

Long-term - systemic effects 0.086 mg/m³ (workers)

CAS: 57583-35-4 Dimethyltin bis(2-ethylhexyl thioglycolate)

Dermal Long-term - systemic effects 0.5 mg/kg bw/day (workers)

Inhalative Long-term - systemic effects 0.01 mg/m³ (workers)

CAS: 115-86-6 triphenyl phosphate

VME : 3 mg/m³ (Indicative exposure limits)

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Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

End Use	Exposure Routes	Potential health effects	Value
Workers	Inhalation	Long-term systemic effects	0.145 mg/m ³
Workers	Inhalation	Acute systemic effects	700 mg/m ³
Workers	Skin Contact	Acute local effects	16 mg/cm ²
Workers	Skin Contact	Long-term systemic effects	0.417 mg/kg
Workers	Skin Contact	Acute systemic effects	2000 mg/kg
General Exposures	Inhalation	Long-term systemic effects	0.07 mg/m ³
General Exposures	Inhalation	Acute systemic effects	350 mg/m ³
General Exposures	Ingestion	Long-term systemic effects	0.04 mg/kg
General Exposures	Skin Contact	Acute local effects	8 mg/cm ²
General Exposures	Skin Contact	Long-term systemic effects	0.208 mg/kg
General Exposures	Skin Contact	Acute systemic effects	100 mg/kg

9. PHYSICAL AND CHEMICAL PROPERTIES

General information:

Appearance:

Physical state:

Solid

Colour:

Transparent, translucent or opaque

Odour:

Characteristic

Important health, safety and environmental information:

pH:

Not applicable

Relative density:

1 to 1,2 g/cm³

Boiling point:

Not applicable

Solubility:

Soluble in solvents

Flash point:

Not determined.

Water solubility:

Insoluble

Flammability:

Not determined

Partition coefficient:

Not determined

Explosive properties:

Not determined

Viscosity:

Not determined

Oxidising properties:

Not determined

Vapour density:

Not determined

Vapour pressure:

Not determined

Evaporation rate:

Not determined

Other information:

Miscibility:

Not determined

Gas group:

Not applicable

Melting range:

150 to 170 °C

Auto-ignition temperature:

Not applicable

Fat solubility:

Soluble in solvents such as ketones, ethers...

10. STABILITY AND REACTIVITY

Conditions to avoid:

Under normal conditions, the material is stable.

Materials to avoid:

Avoid contact with solvents (solubility)

Hazardous decomposition products:

Hydrogen chloride (HCl) - React with water to

form corrosive acids Carbon Dioxide (CO₂)

Carbon Monoxide (CO)

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

None / not available

Local effects:

Decomposition gases can irritate or can be corrosive for the skin, eyes and the respiratory

Chronic toxicity:

Polymer product with no specific concerns for humans.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

The ingredients are not classified as ecotoxics

Mobility:

Not available

Persistence and degradability:

Polyvinylchloride (PVC) polymer is not biodegradable.

13. DISPOSAL CONSIDERATIONS

Appropriate methods of disposal of the product and packaging:

Recycling in authorized facility (Recommended)

Incineration in authorized facility

Landfilling in authorized facility

Note:

Local and national provisions must be applied.

14. TRANSPORT INFORMATION

IMDG (sea):

Product not classified

ADR (road):

Product not classified

RID (rail)

Product not classified

ICAO/IATA (air)

Product not classified

15. REGULATORY INFORMATION

National laws and measures must be applied.

16. OTHER INFORMATION

Text of H phrases referred to under heading 3

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H360D May damage the unborn child.

H361fd Suspected of damaging fertility.

Suspected of damaging the unborn child.

H371 May cause damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life

Sources:

ESIS:

European chemical Substances Information System Suppliers Safety Data Sheets Regulation (EC) No 1907/2006 of the European parliament and of the council of 18 December 2006

Disclaimer:

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