



1. Identification of the Substance / mixture and of the company undertaking

1.1 PRODUCT IDENTIFIER:

Product Names: KESTREL PREFORM (ALL COLOURS)

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Intended Use: Road Marking

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Supplier Information: Kestrel Thermoplastics Ltd,
89 Drumagarner Road,
Kilrea,
Co. Derry,
N.Ireland.
BT51 5TE.
Tel: +44 28 2954 0906
Fax:: +44 28 2954 1140
Email: ian@kestrelplastics.com

1.4 EMERGENCY TELEPHONE NUMBER:

Office hours only:
Tel: +44 28 2954 0906

2. Hazards Identification

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Regulation (EC) No: 1272/2008

Not a hazardous substance / mixture according to GHS. This product (White grade) contains a component (Titanium Dioxide Pigment) suspected of causing cancer. However, this is in a non-respirable form and inhalation is unlikely to occur from exposure. This classification is relevant when exposed to dust or powder form only.

DIRECTIVES 67/548/EEC or 1999/45/EC

This substance is not classified as dangerous according to Directive 67/548/EEC

2.2 LABEL ELEMENTS

Regulation (EC) No: 1272/2008

Not a hazardous substance / mixture according to GHS.

DIRECTIVES 67/548/EEC or 1999/45/EC

Not a hazardous substance according to EC-directives 67/548/EEC or 1999/45/EC.

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 OTHER HAZARDS

POTENTIAL HEALTH EFFECTS

Skin :Not relevant for cold product. Contact with dust can cause mechanical irritation or drying of the skin.

Eyes : Not relevant for cold product. Mechanical irritation of the eyes is possible.

Ingestion : Not relevant for cold product. Unlikely route of exposure.

Inhalation : Not relevant for cold product. Exposure to dust particles generated from this material may cause irritation of the respiratory tract.

Chronic Exposure : Not relevant for cold product. None reasonably foreseeable.



Further information :Does not require a hazard warning label, but normal safety precautions for handling of chemicals must be observed. The molten product can cause serious burns.

POTENTIAL ENVIRONMENTAL EFFECTS

Should not be released to the environment

3. Composition / Information on Ingredients

General: Contains synthetic resin, highly refined mineral oil, aggregates, extenders, polymers, solid pigments and reflective glass beads (reflective grades only)

Ingredient	CAS / EC No:	Classification (EC) 1272/2008	Weight %
Calcium Magnesium Carbonate	CAS 16389-88-1 EC-No 240-440-2	Not Classified	30 – 60%
Soda Lime Glass Beads	CAS No : 65997-17-3 EC-No: 266-046-0	Not Classified	0 – 40%
Resin acids and Rosin acids, fumarated, esters with pentaerythritol	CAS No: 94581-15-4 EC-No: 305-514-1	C1: H 317 Allergic Skin reaction H 319 Eye Irritation. H 413 Aquatic Hazard	0 – 20%
Polyamide Resin	Proprietary	Not Classified	0 – 10%
Titanium Dioxide	CAS No: 13463-67-7 EC-No: 236-675-5	Not Classified	0 – 10%
1,2-Benzenedicarboxylic acid, di-C8-10-branched alkyl esters,	CAS No: 68515-48-0 EC-No: 271-090-9	Not Classified	0 – 5%
Polymer		Not Classified	0 – 5%
Pigment		Not Classified	0 – 5%



4. First-aid measures

4.1 DESCRIPTION OF FIRST AID MEASURES

- Inhalation:** If exposed to excessive levels of dust created by cutting, sanding, grinding or machining or fumes, remove to fresher air and seek medical attention if symptoms develop.
- Eyes:** For contact with molten material or if exposed to excessive levels of dust created by cutting, sanding, grinding or machining, immediately flush eyes with plenty of sterile water for at least 15 minutes. Seek medical attention
- Skin:** For contact with molten material, immediately immerse in or flush area with large amounts of cold water. Do not attempt to remove product from skin. Seek medical attention.
- Ingestion:** Do not induce vomiting. Seek medical attention.

Medical Note

This composition is soluble in aromatic solvents i.e. Toluene, Xylene or in chlorinated hydrocarbon solvents – Chloroform, Dichloromethane. (Long exposure to these types of solvent is harmful.)

4.2 Most important symptoms and effects, both acute and delayed

Contact with excessive dust to the eyes and skin can cause temporary irritation. Contact with molten product can cause severe pain and burns

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically for contact with cold product if required. Contact with molten product is marked with severe pain to exposed area -flush with water and seek immediate medical assistance

5. Fire-fighting measures

5.1. EXTINGUISHING MEDIA:

Not classified as flammable but will support combustion. Extinguish with foam, dry powder or Carbon Dioxide. **Do not use water as an extinguisher.**

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Risk of fire if product is overheated. Molten product reacts violently with water.

Hazardous Combustion Products: Smoke, Fumes, Incomplete combustion products, Oxides of Carbon, flammable hydrocarbons.

5.3. ADVICE FOR FIREFIGHTERS

In the event of fire do not breathe fumes. Use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply. Use water spray to cool fire exposed surfaces and to protect personnel.



6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Collect or scrape up. Allow molten hot materials to solidify before removal and disposal.

6.2. ENVIRONMENTAL PRECAUTIONS

Should not be released into the environment. Prevent product from entering drains.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Product - Collect or scrape up. Sweep or vacuum clean for disposal. Avoid creating / breathing dust.

General - Dispose of safely in accordance with local and national regulations.

6.4. REFERENCE TO OTHER SECTIONS

See Sections 8 and 13.

7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Avoid skin contact with molten or heated thermoplastic material at all times Practice good personal hygiene.

Avoid breathing of dust created by cutting, sanding, grinding or machining.

Storage: Store in a cool dry place.

7.1.2. ADVICE ON GENERAL OCCUPATIONAL HYGIENE

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Individuals having sensitive skin may find it beneficial to use a barrier cream or moisturizer when excessive or prolonged contact with the skin is likely.

See also Section 8 for additional information on hygiene measures.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see section 10) and food and drink.

7.3. SPECIFIC END USE(S)

Section 1.2 informs of the identified end-use as a Road Marking material.



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Ingredient Comments:

No exposure limits noted for the ingredients contained in this mixture.

8.2. EXPOSURE CONTROLS

ENGINEERING MEASURES

Use only with adequate ventilation. If user operations generate dust, fumes, gas, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits

HAND PROTECTION

Gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Use gloves approved to relevant standards e.g. EN 374 (Europe), F739 (US). Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Individuals having sensitive skin may find it beneficial to use a barrier cream or moisturizer when excessive or prolonged contact with the skin is likely. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.



BODY PROTECTION :

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

OTHER PROTECTION

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet.

ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance /Physical state	: Solid Plastic Sheet / Roll / Symbol.
Colour	: Various colours,
Melting point range	: 65 - 130°C.
Flash point (Closed Cup)	: > 230°C.
Relative density	: 1.9 – 2.1 g/cm ³
Solubility(ies)	: Insoluble in water.

9.2. OTHER INFORMATION



10. STABILITY AND REACTIVITY

10.1. REACTIVITY

Material is stable under normal storage conditions.

10.2. CHEMICAL STABILITY

No decomposition if used as directed.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

Hazardous polymerization will not occur.

10.4. CONDITIONS TO AVOID

Avoid exposure to temperatures exceeding recommended processing conditions.

10.5. INCOMPATIBLE MATERIALS

Not applicable.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Material does not decompose at ambient temperatures. In case of fire hazardous decomposition products may be produced such as:

- Carbon Monoxide
- Carbon Dioxide (CO₂)
- Flammable hydrocarbons

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxic Dose 1 - LD 50 5000 mg/kg (oral rat)

INHALATION

Elevated temperatures or mechanical action may form vapours or fumes which may be irritating to the eyes and respiratory tract.

INGESTION

Unlikely route of exposure.

SKIN CONTACT

Contact with hot material will cause burns.

EYE CONTACT

Dust from cutting, grinding, sanding etc may cause transient irritation.

12. ECOLOGICAL INFORMATION

The environmental impact of this product has not been fully investigated.

12.1. TOXICITY

MATERIAL – Not expected to be harmful to aquatic organisms.

MATERIAL – Not expected to be harmful to terrestrial organisms.

12.2. PERSISTENCE AND DEGRADABILITY

Biodegradation:

Material -- Expected to be persistent.

12.3. BIOACCUMULATIVE POTENTIAL

Material -- Potential to bioaccumulate is low.

12.4. MOBILITY IN SOIL

Material -- Low solubility and floats and is expected to migrate from water to the land.
Expected to partition to sediment and wastewater solids.

12.5. PERSISTENCE, BIOACCUMULATION AND TOXICITY FOR SUBSTANCE(S)

This product is not, or does not contain, a substance that is a PBT or a vPvB.

12.6. OTHER ADVERSE EFFECTS

No adverse effects are expected.

13. DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

13.1. WASTE TREATMENT METHODS

Suitable routes of disposal are supervised incineration, preferentially with energy recovery, or appropriate recycling methods in accordance with applicable regulations and material characteristics at the time of disposal.

REGULATORY DISPOSAL INFORMATION

European Waste Code: 08 02 99 MFSU Other coatings wastes not otherwise specified
08 04 99 MFSU Adhesives and Sealants wastes not otherwise specified
17-02-03 Construction and Demolition Waste (Plastic)

NOTE: These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s).

PACKAGING

METHODS OF DISPOSAL : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

SPECIAL PRECAUTIONS :

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Do NOT pour hot material down drains.

14. TRANSPORT INFORMATION

General Does - not contain any substances classified as dangerous for transport.

Customs Classification Number: 39 111 00 0

14.1. UN number

UN No. (ADR/RID/ADN) Not applicable

14.2 UN Proper shipping name

Not applicable

14.3 Transport hazard class(es)

ADR/RID/ADN Class

Not classified for transportation.

14.4. Packing group

Not applicable

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kestrel
THERMOPLASTICS LTD

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

15. REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Applicable EU Directives and Regulations:

1907/2006 [... on the Registration, Evaluation, Authorisation and Restriction of Chemicals ... and amendments thereto]

1272/2008 [on classification, labelling and packaging of substances and mixtures.. and amendments thereto]
Refer to the relevant EU/national regulation for details of any actions or restrictions required by the above Regulation(s)/Directive(s).

15.2. CHEMICAL SAFETY ASSESSMENT

REACH Information:

A Chemical Safety Assessment has not been carried out for any of the substances present in the material.

16. OTHER INFORMATION

P281 Use personal protective equipment as required.

Guidance Notes:

Preventing Dermatitis at Work INDG 233

Medical aspects of occupational skin disease(MS 24)

Workplace Exposure Limits (EH 40)

The above publications are available from HMSO and HSE sources.

www.hse.gov.uk

www.opsi.gov.uk

NOTICE TO THE READER

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.