



## SAFETY DATA SHEET

**Product Name:** White Thermoplastic Cold Mix Powder  
**MSDS No. 01 Briteline Range**

**Page 1 of 5**  
**Rev: 05**  
**Date: 17/02/2020**

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### 1. CHEMICAL PRODUCT AND COMPANY DETAILS.

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**Product Description:** White Thermoplastic Road Marking Material -Powdered Mix.

**Supplier:** Kelly Bros (Erinline) Ltd  
Bailieborough Road  
Virginia  
Co Cavan.  
A82DY05  
Ireland.

**Tel No.** 00353 49 8547173    **Fax No.** 00353 49 8547712.    **E Mail:** info@kellybros.ie  
**Web Site:** <http://www.kellybros.ie>

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### 2. HAZARD IDENTIFICATION.

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- General: When improperly processed, handled or stored dust formation can cause mild irritation to eyes and respiratory tract. **WARNING:** may form combustible dust concentration in air (during processing/handling).
- Skin: Non-irritant
- Eye: Mild irritant
- Inhalation: Avoid inhalation of dust – may irritate the respiratory tract. When heated, avoid inhalation of the vapour/fumes given off.
- Burns: Liquid, molten product adheres to the skin and causes burns. Working temperatures during processing range from 160 to 220°C.
- Signal word: Warning

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS.

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Dry powdered mix packed in low melt polythene sacks. Weight 25 kgs approx.

Component	%	CAS	EINECS	Hazard Statement
Soda-lime glass	20	65997-17-3	266-046-0	Not classified
Hydrocarbon resin	20 approx	68478-07-9	-	Not classified
Lubricating oil	3 approx	-	-	Not classified
Titanium dioxide	1÷8	13463-67-7	236-675-5	Not classified
Dolomite	50 approx	16389-88-1	240-440-2	Not classified
Fatty acids, C16-18, zinc salts	0.5 approx	91051-01-3	293-049-4	Not classified

**Ref (I.S. EN 1871) 2000 Road Marking Materials - Physical Properties**



## SAFETY DATA SHEET

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Product Name: White Thermoplastic Cold Mix Powder  
**Briteline Range**

**Page 2 of 5**  
**Rev: 05**  
**Date: 17/02/2020**

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### 4. FIRST AID MEASURES.

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**Symptoms and effects:** Not expected to give rise to an acute hazard under normal conditions of use

**First Aid – Inhalation:** Supply fresh air. In case of adverse exposure to vapours formed when using hot material immediately remove the victim from exposure. If rapid recovery does not occur obtain medical attention. No anticipated adverse effects due to dust/vapour exposure is anticipated during normal working conditions.

**First Aid - Skin:** Wash thoroughly with soap and water following contact with powder. Molten material on the skin should be cooled rapidly with cold water, but not pulled off. Cover with clean cotton sheeting or gauze or apply anti-burn gel if available and get prompt medical attention.

**First Aid – Eye:** Flush eye with water. If persistent irritation occurs, obtain medical attention.

**First Aid – Ingestion:** Seek medical advice.

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### 5. FIRE FIGHTING MEASURES.

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#### Extinguishing Media Recommended:

If boiler-containing thermoplastic ignites use,

- alcohol resistant foam or dry chemical powder
- carbon dioxide
- blanket

Do not under any circumstances use liquid fire extinguishers on molten material.

**Protective Equipment:** Formation of toxic fumes/vapours is possible during a fire incident. Avoid inhalation of smoke and fumes. The appropriate respiratory and eye protection is required for fire-fighting personnel.

**Fire-fighting Instructions:** Evacuate area upon fire incident. Use suitably trained personnel to conduct fire-fighting operations. Prevent the run-off of contaminated firewater to drains, groundwater or surface water bodies.

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### 6. ACCIDENTAL RELEASE MEASURES.

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- **Land Spill:**
    - Powdered material compacts and hardens. Shovel up and place in suitable container for recycling or disposal using an appropriately licensed waste operator.
    - Hot, fluid material should be allowed to cool completely. Chip off using appropriate PPE and store in suitable container for recycling or disposal using an appropriately licensed waste operator. Consult an expert on the disposal of any recovered material and ensure conformity to local disposal regulations.
  - **Environment:** Avoid discharge to drains, groundwater and surface water bodies
  - **Additional Information:** No constituent ingredients are classified in accordance with EU Directives. Dust generation is controlled through dampening.
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## SAFETY DATA SHEET

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Product Name: White Thermoplastic Cold Mix Powder  
**Briteline Range**

**Page 3 of 5**  
**Rev: 05**  
**Date: 17/02/2020**

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### 7. HANDLING AND STORAGE.

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**Storage Temperature:** Ambient. Prolonged storage may cause material to harden and compact but remains usable.

**Storage Conditions:** Store in a cool, dry, well-ventilated area. Material may foam/spit when mixed with hot material.

**Handling:** Ensure adequate ventilation; avoid creating and breathing dust. Avoid skin and eye contact. Do not eat, drink or smoke whilst handling. Do not breathe fumes from hot product. Implement good personal hygiene practices and launder contaminated clothing regularly.

**Fire Prevention:** Keep away from sources of ignition and heat. No smoking. Avoid formation of flammable dust clouds. Do not subject material to temperatures above its flash point.

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### 8. EXPOSURE CONTROL / PERSONAL PROTECTION.

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**Engineering Controls:** During normal operating conditions the working area should be well ventilated. When correctly stored, handled and processed there should be no exposure to dust, however if dust or fumes from the molten material occurs, then the use of local exhaust ventilation is recommended. Dust dampening occurs to minimize the formation and spread of dust in the air.

**Personal Protection:**

**Eye Protection:** Wear safety glasses with side shield or face visor

**Protection from burns:** Where contact may occur with hot materials, wear thermal resistant gauntlets or similar and a face shield. CEN standard EN 420 and EN 370 provide guidance as regards glove type requirements.

**Respiratory Protection:** Use molten material in a well-ventilated area. If airborne concentrations of relevant parameters exceed applicable Occupational Exposure Limits as stipulated in the HSA's Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001, workers should be provided with appropriate PPE as per CEN Standards EN 136, 140 & 405 (Respirator masks) and EN 149 & 143 (Filters).

**Exposure Limits:**

No constituent material is classified under EU Directives. Two parameters of potential concern during adverse working conditions are Total Inhalable Dust and Total Respirable Dust. OEL's for these parameters have been obtained from the HSA's Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001.

Parameter	CAS No	LT Exp 8hrs	ST Exp 15min
Total Inhalable dust	N/A	10 mg/m <sup>3</sup>	-
Respirable dust	N/A	3 mg/m <sup>3</sup>	-

Occupational air monitoring should take place on a periodic basis to ensure compliance with applicable OEL's.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES.

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Physical State: Cold/ambient conditions - Solid, powder. Heated condition - Liquid, molten.

Colour:	White
Bulk density:	1.9 – 2.0
Flash point:	240°C
Solubility in water:	No
Solubility in solvent:	Soluble

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## SAFETY DATA SHEET

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Product Name: White Thermoplastic Cold Mix Powder  
**Briteline Range**

**Page 4 of 5**  
**Rev: 05**  
**Date: 17/02/2020**

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### 10. STABILITY AND REACTIVITY.

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**Stability:** Stable under recommended storage and handling conditions (Ref Section 7). Exposure to high temperatures may produce hazardous decomposition products such as carbon monoxide.

**Conditions to avoid:** Sources of ignition. Elevated temperatures. Water or damp. Wet or damp materials could foam/spit when heated.

**Hazardous Decomposition Products:** Harmful fumes (i.e. carbon monoxide, nitrogen oxides) may be emitted upon combustion of material.

**Reactivity:** Pigment may be dissolved in strong acids or alkalis.

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### 11. TOXICOLOGICAL INFORMATION.

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**Eye Contact:** If product is molten, burns to eyes may occur if product splashes. Dust forming as a result of product exposure may be irritating to eyes.

**Inhalation:**

- Dust forming at ambient temperatures may be an irritating to the respiratory tract.
- Vapours, which may be formed at elevated temperature, may be irritating to the respiratory tract.
- Under normal working conditions hazard is considered negligible.

**Skin Contact:**

- Powder form may cause mild irritation.
- Hot material will cause thermal burns.

**Ingestion:**

- Minimal toxicity. Constituents not classified according to EU Directives

**Chronic Effects:** Repeated and prolonged exposure to dust associated with product may lead to respiratory tract irritation. Under normal storage/handling/process conditions dust does not form and spread to the air.

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### 12. ECOLOGICAL DATA.

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Not expected to be harmful to aquatic organisms. Do not allow to enter drains, groundwater or surface water bodies.

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### 13. DISPOSABLE CONSIDERATIONS.

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**Packaging:** - Low melt polythene sacks are fed into the pre-heater and dispersed as part of the binder constituent in the molten material. Any unused empty polythene bags, pallet wrap, and pallets should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Ensure compliance with EC, national and local regulations.

Suitable routes of disposal: landfill, incinerators or appropriate recycling methods.

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## **SAFETY DATA SHEET**

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Product Name: White Thermoplastic Cold Mix Powder  
**Briteline Range**

**Page 5 of 5**  
**Rev: 05**  
**Date: 17/02/2020**

### **14. TRANSPORT INFORMATION.**

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White thermoplastic material is not classified as hazardous for transport.

- Road (ADR) / Rail (RID) not restricted for transport, TREMCARD not required.
- Marine (IMO-IMDG) not restricted for transport.
- Airline (ICAO / IATA) not restricted for transport

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### **15. REGULATORY INFORMATION.**

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#### **Labelling and Classification EC Directives:**

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This data sheet was prepared in accordance with the CLP Regulation (EC) No. 1272/2008 and the EU's REACH Regulation (EC) No. 1907/2006 (Annex II).

Hazard Statements:

N/A– Constituents not classified in accordance with EU Directives/Regulations

Precautionary Statements:

P314: Get Medical advice/attention if you feel unwell

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### **16. OTHER INFORMATION.**

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The information of this safety data is based on present knowledge, constituent MSDS's and current EU Directives. It provides guidance on Health & Safety of the product and should not be mistaken as a guarantee of technical performance criteria or suitability for particular applications.

The onus is on the user to satisfy themselves as to the suitability and completeness of such information for their own particular use.

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