



SAFETY DATA SHEET

Product Name: Yellow Thermoplastic Cold Mix Powder
MSDS No. 02

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Rev: 05
Date: 17/02/2020

1. CHEMICAL PRODUCT AND COMPANY DETAILS.

Product Description: Yellow 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>

2. HAZARD IDENTIFICATION.

- General: When improperly processed, handled or stored dust formation can cause mild irritation to eyes and respiratory tract.
- Skin: Non-irritant
- Eye: Mild irritant
- Inhalation: Avoid inhalation of dust – may irritate the respiratory tract.
- Burns: Liquid, molten product adheres to the skin and causes burns. Working temperatures during processing range from 160 to 220°C.
- Signal word: Warning

3. COMPOSITION/INFORMATION ON INGREDIENTS.

Dry powdered mix packed in low melt polythene sacks. Weight 25Kgs 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
Colourant mixture, inorganic/organic construction	<1	-	-	Not classified

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



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4. FIRST AID MEASURES.

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: Molten material on the skin should be cooled rapidly with cold water, but not pulled off. Wash thoroughly with soap and water following contact with powder.

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

First Aid – Ingestion: Rinse mouth thoroughly with water. Seek medical advice immediately.

5. FIRE FIGHTING MEASURES.

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.

Special hazards arising from product: In the event of fire the following can be released: Sulphur oxides; Carbon monoxide (CO); Carbon dioxide (CO₂); Nitrogen oxides (NO_x); Irritant and harmful combustion products.

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.

6. ACCIDENTAL RELEASE MEASURES.

- **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:** Dust generation is controlled through dampening.



7. HANDLING AND STORAGE.

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.

8. EXPOSURE CONTROL / PERSONAL PROTECTION.

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:

The 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 ³	-
Respirable dust	N/A	3 mg/m ³	-

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

9. PHYSICAL AND CHEMICAL PROPERTIES.

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

Colour: White - yellow (yellow sachets of chrome pigment one per bag).

Bulk density: 1.9 – 2.0

Flash point: 240°C

Solubility in water: No

Solubility in solvent: Soluble



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10. STABILITY AND REACTIVITY.

Stability: Stable under recommended storage and handling conditions (Ref Section 7). Exposure to temperatures outside normal processing conditions may produce hazardous decomposition products such as carbon monoxide, nitrogen oxides, sulphur oxides.

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

Incompatible materials: Reactions with strong alkalis, reducing agents, acids.

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

11. TOXICOLOGICAL INFORMATION.

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 irritant to the respiratory tract.
- Vapours, which may be formed outside normal processing conditions, can be harmful.
- 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 exposure to dust does not occur.

12. ECOLOGICAL DATA.

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

13. DISPOSABLE CONSIDERATIONS.

Dispose of hazardous constituents in accordance with local/national hazardous waste regulations using an appropriately qualified, approved waste operator.

14. TRANSPORT INFORMATION.

Not classified as hazardous for transport

Source: Approved Carriage List (3rd Ed) Special Provision SP199

- 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.

Labelling and Classification EC Directives:

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

16. OTHER INFORMATION.

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.
