



1. IDENTIFICATION

Product Name	:	"Ultramark" Thermoplastic Road Marking Material (Yellow)
Synonyms	:	Hot-applied thermoplastic road marking material Thermoplastic road marking material (screed) Thermoplastic road marking material (extrusion) Thermoplastic road marking material (profile)
Recommended Use	:	Road / Pavement / Traffic marking
Manufacturer / Supplier	:	Automark Industries India Pvt. Ltd. 2 nd & 3 rd Floor, 2, Lotus Plaza, Opp. VCA Stadium Gate No.2, Civil Lines, Nagpur, Maharashtra India 440001. Phone : +91-712-6603671

2. HAZARD IDENTIFICATION

Not classified as Hazardous
Precautionary Statements :

P201 Obtain special instruction before use

P281 Use personal protective equipment as required

P308+P313 If exposed or concerned: Get medical advice/attention

P405 Store Locked up

P501 Dispose of content/container in accordance with local/regional/national/international regulation

Poison Schedule : Not allocated



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3. COMPOSITION AND INFORMATION ON INGREDIENTS

Particulars	Proportion	CAS Number
Solid glass beads	20 to 30	65997-17-3
Modified rosin ester	15 to 20	Proprietary
Polyethylene wax	1 to 5	9002-88-4-100
Yellow pigment	0.2 to 2.0	1344-37-2
Titanium dioxide	0.0 to 2.0	13463-67-7
Calcium carbonate	Remainder	471-34-1

Note : exact proportion of constituents has been withheld as a trade secret is required.

4. FIRST AID MEASURES

Inhalation : Move to fresh air. Consult a physician if symptoms persist.

Skin contact : In case of burns, remove patient from heat source. Immediately cool affected skin for as long as possible with cold water. Remove smoldering clothing, including shoes and jewellery. Do not remove clothing if adhering to skin. Do not attempt to remove the molten thermoplastic from the skin. Removal could result in severe tissue damage. Cover patient with dry clean sheet. If required, seek medical attention immediately.

Eye contact : Contact with molten materials requires immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician if symptoms persist.

Ingestion : Do not induce vomiting. If conscious, rinse mouth and drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.

Medical attention : Treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazchem Code : Not applicable.

Unusual fire and explosion hazards : None expected.

Special fire fighting procedures : As in any fire, wear self-contained breathing apparatus MSHA/NIOSH (approved or equivalent) and full protective gear.

Extinguishing media : Foam, Carbon dioxide, DCP

6. ACCIDENTAL RELEASE MEASURES

Minor spill : Wear protective equipment to prevent skin and eye contamination. Wipe out with absorbent (clean rag or paper towel) or absorb with sand. Allow absorbent to dry before disposal.

Major spill : Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapors. Work up wind or increase ventilation. Prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of sewers or waterways has occurred advise local emergency services.

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7. HANDLING AND STORAGE

Handling : Ensure adequate ventilation. Avoid breathing vapor, mists or dust. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Observe good industrial hygiene practices. Avoid dust formation. Fine dust dispersed in air may ignite. Do not reheat product packaged in light metal containers. The light metal containers will not safely support the movement or transfer of the product in a hot, molten form. Do not heat over 260°C/500°F in a closed container. This product when heated to above 260°C/500°F can lead to flashing. Appropriate protective equipment must be worn when mixing and applying this product. Keep away from heat and sources of ignition. The thermoplastic bag can be hazardous when empty, because it can retain product residue. Therefore, do not reuse container for food, clothing, or products for human or animal consumption or where skin contact may occur. Always obey hazard warnings and handle containers as if they were full. The meltable bag is compatible with the thermoplastic allowing them to melt and become part of the hot melt mixture at application temperature.

Storage : Keep in cool and dry place away from direct sunlight and rains.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

National / occupational exposure limits : Not specified

Biological limit values : Not specified

Engineering controls : Use only in well ventilated areas. Keep containers closed when not in use.

Personal protective equipment : Overalls, safety shoes, safety glasses, heat-resistant gloves.

Hygiene Measures : Keep away from food, drink and animal feed. When working, do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid skin and eye contact and inhalation of vapor, mist or aerosols.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid
Odour	Odourless
Flammability	Not flammable
Vapour pressure	Not applicable
Odour threshold	Not applicable
Melting range	100 to 150 °C
Evaporation rate	Not applicable
Partition coefficient	Not applicable
Boiling range	Not applicable
Flash point	> 230°C
Decomposition temperature	Not applicable
Auto-ignition temperature	Not applicable
Density	1.95 to 2.05

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Non-volatile matter	100%
Solubility	Partially soluble in organic solvents
pH	Not applicable
Viscosity	15,000 to 20,000 cPs at 200 ⁰ C
VOC content	Nil

10. STABILITY AND REACTIVITY

Reactivity : Non-reactive

Chemical stability : Chemically stable when stored and used as recommended.

Conditions to avoid : During storage, temperatures above 50⁰C and source of ignition.

Incompatible materials : None known.

Hazardous decomposition products : Obnoxious fumes

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may rise if the product is mishandled and overexposure occurs are -

Inhalation : Where this material is used in a poorly ventilated area, at elevated temperatures or in confined spaces, vapor may cause irritation to mucous membranes and respiratory tract, headache and nausea.

Skin contact : Contact with skin may result in irritation.

Ingestion : Swallowing can result in nausea, vomiting and abdominal pain.

Eye contact : May be an eye irritant.

Acute effects

Ingestion : Swallowing can result in nausea, vomiting and central nervous system depression. If the victim is uncoordinated there is greater likelihood of vomit entering the lung and causing subsequent complications.

Eye Contact : Irritating, causing redness and burning sensation.

Skin Contact : Irritating, causing redness and burning sensation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

Inhalation : This material has been classified as non-hazardous.

Acute toxicity

Inhalation : This material has been classified as non-hazardous.

Skin contact : This material has been classified as non-hazardous.

Ingestion : This material has been classified as non-hazardous.

Corrosion / irritancy : Eye: this material has been classified as not corrosive or irritating to eyes.

Skin: this material has been classified as not corrosive or irritating to skin.



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Sensitization : Inhalation: this material has been classified as not a respiratory sensitizer. Skin: this material has been classified as not a skin sensitizer.

Aspiration hazard : This material has been classified as non-hazardous.

Specific target organ toxicity (single exposure) : This material has been classified as non-hazardous.

Chronic toxicity

Mutagenicity : This material has been classified as non-hazardous.

Carcinogenicity : This material has been classified as non-hazardous.

Reproductive toxicity : This material has been classified as non-hazardous.

Specific target organ toxicity (repeated exposure) : This material has been classified as non-hazardous.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard : No information available.

Long-term aquatic hazard : No information available.

Ecotoxicity : No information available.

Persistence and degradability : No information available.

Bioaccumulation potential : No information available.

Mobility : No information available.

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used. If possible, material and container should be recycled. If material and container cannot be recycled, dispose in accordance with local, regional, national and international regulations.

14. TRANSPORT INFORMATION

Proper shipping name	Thermoplastic road / pavement marking material
DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
IATA	Not regulated
IMDG / IMO	Not regulated

15. REGULATORY INFORMATION

All the constituents of this material are listed on the AICS.

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16. OTHER INFORMATION

Prepared by	Kshitij Tankhiwale Automark Industries India Pvt. Ltd. 2 nd & 3 rd Floor, 2, Lotus Plaza, Opp. VCA Stadium, Gate No.2, Civil Lines, Nagpur, Maharashtra, India – 440001
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Abbreviations :

CAS : Chemical Abstract Number

HMIS: Hazardous Materials Identification System

Disclaimer : The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication and it does not purport to be all inclusive and shall be used only as a guide. We urge each customer or recipient of this SDS to study it carefully to become aware of and understand the potential hazards associated with the product. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. Any use of the product not in conformance with this SDS or in combination with any other product or process is the responsibility of the user. Customary precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Remove all soiled and contaminated clothing immediately.

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