



ROADSTAR THERMOPLASTIC ROADMARKING PAINT

SAFETY DATA SHEET

According to GHS

Section 1. Identification

GHS product identifier	Roadstar Thermoplastic Roadmarking Paint
Other means of identification	IHMP-001, IHMP-002, IHMP-003, IHMP-004
Product type	Powder
Relevant identified uses of the substance or mixture and uses advised against	
Product Use	Suitable for use on suitably prepared concrete, bituminous road and runway surfaces. Thermoplastic road marking paint is recommended for situations requiring high performance.
Restrictions of use	Do not use in areas / substrates other than specified for in identified uses / TDS.
Supplier's details	Prostar Export Paint PTY (Ltd) 268 Inanda Road, Springfield Park Durban Tel: +27 31 574 5376
Emergency Telephone number	National Poison Centre: 0861 555 777

Section 2. Hazard identification

Classification of the Substance or Mixture	Not classified as hazardous.
Label elements according to	UN GHS
Hazard pictograms	None Required
Signal word	None Required
Hazard statements	No known significant effects or critical hazards.
<u>Precautionary statements:</u>	
General	P102 - Keep out of reach of children. P103 – Read carefully and follow all instructions
Prevention	Not Applicable
Response	Not Applicable
Storage	P405 - Store locked up. P410 - Protect from sunlight. P403+233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national or international regulations.
Other Hazards which do not result in Classification	None Identified

Section 3. Composition/information on ingredients

Substance / mixture	Mixture
Other means of identification	IHMP-001, IHMP-002, IHMP-003, IHMP-004
<u>CAS number/other identifiers</u>	
CAS Number	Not Applicable

Ingredient name	CAS number	%
Glass, oxide	65997-17-3	20 – 50
Calcium carbonate	471-34-1	30 – 60
Titanium dioxide	13463-67-7	6 – 10

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation persists.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	Remove contaminated clothing and shoes. Wash contaminated skin with soap or a recognized skin cleaner and plenty of water. Avoid the use of solvents. Get medical attention if symptoms persist. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	Remove victim to fresh air and keep at rest in a position Comfortable for breathing. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	No data available.
Inhalation	No data available.
Skin contact	No data available.
Ingestion	No data available.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	No specific treatment.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire such as dry powder, CO ₂ , water spray (fog) or foam. Use fog to cool and control.
Unsuitable extinguishing media	Do not use water jet.
Specific hazards arising from the chemicals	Non-flammable.

Section 5. Fire-fighting measures

Hazardous thermal decomposition products

Decomposition products may include the following materials:
Carbon dioxide
Carbon monoxide
Metal oxide/oxides

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

Prevent entry of hot material into drains.

Methods and materials for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safehandling

Put on appropriate personal protective equipment (see Section 8). 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. Avoid exposure obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame, or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges.



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Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. 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. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Do not reuse container.

Section 8. Exposure controls/personal protection

Occupational exposure limits

None

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Appropriate engineering controls

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Environmental exposure controls

Sweep or preferably vacuum up and collect in suitable containers for disposal. Allow hot spillages to cool completely then break up into handleable amounts and dispose of in accordance with local regulations.

Individual protection measures

Hygiene measures

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. 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.

Eyeface protection

Wear face shield when transferring hot material between receptacles. Avoid direct contact. Never touch eyes with dirty hands or gloves. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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 skin 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.

Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary e.g. in case of insufficient ventilation. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state	Solid
Color	White (IHMP-001), Black (IHMP-002), Red (IHMP-003), Yellow (IHMP-004)
Odor threshold	Odourless
Melting point	89°C
Boiling point	No data available
Flammability (solid, gas, liquid)	No data available
Lower and upper explosive(flammable) limits	No data available
Flash point	<270 °C
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	Not applicable
Viscosity	No data available
Solubility	Soluble in organic solvents, insoluble in water
Partition coefficient: n-octanol/water	No data available
Evaporation rate	No data available
Vapour pressure	No data available
Relative density	2 g/ml (typical)
Vapour density	No data available

Section 10. Stability and reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No data available
Incompatible materials	No available data
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Acute Toxicity

Ingredient name	Result	Species	Dose	Exposure
Titanium dioxide	LD50 Oral	Rat	5000 mg/kg	-

Irritation/Corrosion

No data available.

Specific target organ toxicity (single exposure)

No data available.

Specific target organ toxicity (repeated exposure)

No available data

Section 11. Toxicological information

Aspiration hazard

No data available.

Information on the likely routes of exposure Inhalation, skin and eye contact.

Potential acute health effects

Eye contact No known significant effects or critical hazards

Inhalation No known significant effects or critical hazards

Skin contact No known significant effects or critical hazards

Ingestion No known significant effects or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact No data available.

Inhalation No data available.

Skin contact No data available.

Ingestion No data available.

Potential chronic health effects

General No known significant effects or critical hazards.

Carcinogenicity No known significant effects or critical hazards.

Mutagenicity No known significant effects or critical hazards.

Teratogenicity No known significant effects or critical hazards.

Developmental effects No known significant effects or critical hazards.

Fertility effects No known significant effects or critical hazards.

Acute toxicity estimates No data available.

Section 12. Ecological information

Toxicity

Ingredient name	Result	Species	Exposure
Titanium dioxide	LC50 > 1000 mg/l	Acute fish toxicity- Pimephales promelas	96 hours

Persistence and degradability No data available.

Bioaccumulative potential No data available.

Mobility in soil

Soil/water partition coefficient (KOC) No data available.

Mobility No data available.

PBT/vPvB data P: No data available.

B: No data available.

T: No data available.

Other adverse effects No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	Transportation - road - SANS 10228:2012	Transportation Maritime - IMO/ IMDG	Transportation- Air – IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	No data available	No data available	No data available
Transport hazardclass(es)	No data available	No data available	No data available
Packing group	No data available	No data available	No data available
Environmental hazards	No	No	No
Additional information	No data available	No data available	No data available
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	No data available	No data available	No data available
MARPOL 73/78 and the IBC code			

Section 15. Regulatory information

Safety, health and environmental regulationsspecific for the product

Relevant information regarding authorization: Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances. Relevant information regarding restrictions: None known. EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP] and EU directives 67/548/EEC or EC 1999/45/EC Other National regulations: None. Standards used for PPE recommendations in Section 8: NIOSH-National Institute for Occupational Health and Safety (USA) EN 166 European standard which concerns the area of eye protection. EN 374-3 European standards for permeation and penetration. EN 141/EN 143 European standards for gas mixtures to remove specified gases and vapours or combined filters for removing solids, and/or liquid particles and specified gases and vapours.



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Section 16. Other information

History

Date of review

Date of review	Version	Amendments
07/06/2024	1	GHS Compliant SDS

Date of previous issue Version:

None

ATE = Acute Toxicity Estimate

BCP Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OHSA = Occupational Health and Safety Act, 1993 (South Africa)

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

UN = United Nations

Supplier Safety Data Sheets.

Key to abbreviations

References

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers:

Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be only used as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.