



SAFETY DATA SHEET

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name	TL-2000.
Synonym	Not available.
Use	Protection of roads, runways, etc. from destruction caused by environmental factors and traffic loads.
Chemical formula	Mixture.
Registration numbers	Not allocated.
Manufacturer/Supplier	HALIK Ltd.
Address	24 Tamuz, Kiryat Gat 82000, Israel.
Phone number	972-8-6817453/4
Fax number	972-8-6814020
E-mail	info@halik.biz
Website	www.halik.biz

SECTION 2. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient Name	CAS No.	Conc.
Oxidized bitumen	64742-93-4	< 20%
Mixed fatty acid	52627-73-3	< 1%
Polystrene	9003-53-6	< 1%
Thermoplastic elastomer	308079-71-2	< 1%
Xylene	97123-41-6	< 20%



Hydro carbon formulations	72623-86-0	< 3%
Waxes	8002-74-2	< 3%
Antioxidants	68937-92-8	< 1%
Dolomite powder	16389-88-1	> 65%
Styrene monomer	9003-53-6	< 2%

SECTION 3. HAZARDS IDENTIFICATION

This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

OSHA Pictogram



Harmful if swallowed

May cause irritation

Effects of short-term exposure

May irritate the eyes, respiratory tract and (slightly) skin.

Inhalation

May cause irritation. Vapors may cause headache, nausea and/or dizziness. In application, normally reduced inhalation hazard due to high vapor density and rapid polymerization upon contact with air.

Skin contact

H317 May cause an allergic skin reaction. May cause irritation.

Eye contact

May cause irritation.

Ingestion

No normal route of exposure. Causes irritation.

Effects of regular exposure

Frequent and prolonged contact of the skin with the product may cause dermatitis.

Medical conditions which may be aggravated

Pre-existing skin diseases.

by contact with the product



Hazards for environment	After polymerization taking about an hour in the open air (depending on ambient temperature, air humidity, etc.). Doesn't contaminate the environment.
Precautionary statements	
P210	Keep away from heat/sparks/open flames/hot surfaces.
P233	Keep container tightly closed.
P280	Wear protective gloves.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 4. FIRST AID MEASURES

Inhalation	Evacuate to a place with fresh air. If respiration is difficult, provide oxygen. If irritation or persistent problems develop, seek medical attention.
Skin contact	Remove contaminated clothes. Wash thoroughly with warm water and non-abrasive soap. From uninjured skin, the product can be easily removed with mineral oil. If irritation or persistent problems develop, seek medical attention. 2
Eye contact	Immediately wash with much water for at least 15 minutes keeping the eyelids wide open. Never use any eye ointment. If irritation or persistent problems develop, seek medical attention.
Ingestion	Don't induce vomiting. Have conscious person drink several glasses of water or milk. Clear the mouth and keep at rest. Call a physician. In case of spontaneous vomiting, prevent aspiration into the respiratory tract.
Notes on methods of treatment	Treat depending on symptoms.



SECTION 5. FIRE AND EXPLOSION DATA

Flammability of the product	Non-flammable without direct action of open fire.
Flash point	85 °C - 150 °C . adjustable (ASTM D93)
Auto-ignition temperature	Not available.
Products of combustion	Carbon oxides and other unidentified compounds.
Fire hazards	Flammable in the presence of open flames, sparks or excessive heat.
Exinction agents	Carbon dioxide (CO2), dry chemical powder, foam. Don't use water directly.
Special fire-fighting methods	Use water mist to cool product containers if they get heated.
Personal protective equipment for firemen	Protective clothes, footwear and breathing masks.
Explosion hazards	Non-explosive.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Emergency measures in case of spilling	Slippery when spilt, avoid accidents. Stop leakage. Eliminate sources of ignition. Use sand or earth to absorb the spilled product. Put it into a metal container. Clean up the area of spilling.
Personal protective equipment for fighting the emergency	Protective clothes and footwear, safety goggles with side protection, respirator with filters for organic vapors.
Precautions to avoid damage to environment	Avoid penetration into natural water courses, water wells and sewer systems. After polymerization taking about an hour in the open air, doesn't contaminate the environment.
Purification methods	Absorb the product remnants with inert materials and put into a metal container. Wash open surfaces with much water



and industrial detergents.

Waste disposal methods

See Section 13.

SECTION 7. HANDLING AND STORAGE

Precautions

Handle with care in the open air or in well-ventilated areas.

Avoid contact with eyes and skin. Keep away from foodstuffs, drinks and tobacco. Eating, drinking and smoking should be prohibited in areas where the product is handled, stored or processed. Workers should wash hands and face before eating, drinking or smoking. Ensure that eye washing facilities, safety showers and lavatories are proximal to work-station location.

Storage conditions

Store in tightly closed containers outdoors or in ventilated rooms.

Keep away from sources of heat and ignition.

Keep away from highly oxidizing products.

Provide safety showers and lavatories.

SECTION 8: EXPOSURE CONTROL / SPECIAL PROTECTION

8.1 Control parameters:

Occupational exposure limits: No exposure limit value known.

8.2 Exposure Controls:

8.2.1 Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the occupational exposure limit is not exceeded.

Adequate ventilation. Good practice of personal and industrial hygiene.

Provide safety showers and lavatories.



8.2.2 Personal Protection

Eye/face protection

Goggles giving complete protection to eyes (EN 166)



Skin protection

Protective gloves (EN 374)



Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment (BS EN 14387:2004+A1)



Other

Apron or other light protective clothing, boots and plastic or rubber gloves.

8.2.3 Environmental Exposure Controls

Avoid release to the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	Black viscous liquid with mild characteristic odor.
Boiling point	Not available.
Flash point	85 °C - 150 °C . adjustable (ASTM D93)
Specific gravity	1.6 (Water = 1)
Vapor pressure	Not available.
Vapor density	Heavier than air.
Volatility	Not available.



Viscosity	About 3800 cP as measured with Brookfield viscometer (Spindle No. 6) at 100 RPM and 20 °C.
Solubility	Insoluble in water.

SECTION 10. STABILITY AND REACTIVITY DATA

Stability	Stable under normal conditions of use and storage. Polymerization occurs upon contact with air.
Conditions to be avoided	Contact with open fire, very high temperatures, contact with incompatible materials.
Incompatible materials	Strong oxidants (chlorates, chlorine, peroxides, acids, alkalis, etc.).

SECTION 11. TOXICOLOGICAL INFORMATION

Routes of entry	Inhalation, skin contact, eye contact, ingestion.
Toxic effects on humans	The product is irritating to mucous membranes, upper respiratory tract, eyes, and also to skin (slightly). Inhalation may cause headaches, nausea and vomiting. May be aggravating to some pre-existing skin and asthma-type conditions.
Chronic effects on humans	No information available.

SECTION 12. ECOLOGICAL INFORMATION

Effects on environment	After polymerization taking about an hour in the open air, doesn't contaminate the environment.
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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal of remnants and waste	In accordance with municipal and regional regulations. Consult your local or regional authorities. Remnants can be
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disposed of by incineration in suitable ovens. May also be recycled.	
Disposal of contaminated containers and packages	Empty containers must be handled with care due to product residue. Don't heat or cut empty containers with electric or gas torches.

SECTION 14. TRANSPORT INFORMATION 4

Hazards in transportation	Not regulated as hazardous material for transportation.
Special provisions for transport	No additional remarks.

SECTION 15. OTHER REGULATORY INFORMATION

Other regulations	TSCA (Toxic Substances Control Act).
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SECTION 16. OTHER INFORMATION

References	Manufacturer's Data Sheets and other Manufacturer's documents.
Other special considerations	Individuals with respiratory problems (asthma, chronic bronchitis, etc.) should avoid any contact with this product.

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named Manufacturer/Supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.