



## KP FOR TL-2000 - SAFETY DATA SHEET

### SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product name</b>	<b>KP- additive for bitumen.</b>
Synonym	Not available.
Use	A component in production of Road Coating Material TL-2000.
Chemical formula	Mixture.
Registration numbers	Not allocated.
Manufacturer/Supplier	HALIK Ltd.
Address	24 Tamuz St., 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. HAZARDS IDENTIFICATION

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	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 by contact with the product      Pre-existing skin diseases.

## SECTION 2. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient Name	CAS No.	Conc.
Bitumen (petroleum dist. Vacuum residues)*	64741-56-6	< 40%
Polystyrene	9003-53-6	< 10%
Thermoplastic elastomer	Dependent on the type	< 15%
Styrene monomer	9003-53-6	< 40%
Antioxidants	97123-41-6	< 2%
Mixed fatty acids	68937-92-8	< 40%
Hydro carbon formulations	72623-86-0	< 10%
Waxes	8002-74-2	< 3%
Xylene	97123-41-6	< 60%

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.



#### SECTION 4. FIRST AID MEASURES

Inhalation	Evacuate to a place with fresh air. If respiration is difficult, 2 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.
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.

#### SECTION 5. FIRE AND EXPLOSION DATA

Notes on methods of treatment	Treat depending on symptoms.
Flammability of the product	Flammable.
Flash point	60 °C -100 °C (adjustable) (ASTM D-93)
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	Protective clothes, footwear and breathing masks. for firemen
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

Measures to reduce the exposure	Adequate ventilation. Good practice of personal and industrial hygiene. Provide safety showers and lavatories.
Parameters under control	None.
Personal protection	Protective clothes and footwear, impervious gloves, splash goggles with side protection. During spray application, air purifying respirator with organic vapor filters.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	Murky liquid with mild characteristic odor.
Boiling point	Not available.
Flash point	30 °C - 200 °C. adjustable (ASTM D-93)



Specific gravity	0.90-0.92, @15 °C (ASTM D-1298)
Vapor pressure	Not available.
Vapor density	Heavier than air.
Volatility	Not available.
Viscosity	850-1000 CST, @25 °C (ASTM D-445)
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, 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 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

Hazards in transportation	classified as D.G. UN No: 3256, PSN: 'ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S. with flashpoint above 60°C, at or above its flash point, Class 3
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### 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.*