

July 2025



TL-2000 30% - SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 Article 31 and Swiss Regulation

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

- 1.1 Product name:** TL-2000 30% Liquid
- 1.2 Product type:** TL-2000 30% Liquid is a component for producing TL-2000 coating
- 1.3 Company identification:** HALIK Ventures Ltd.
- 30941 Peardonville Rd, Abbotsford, BC V2T 6K3
- info@halik.biz
- www.halik.biz

2. HAZARDS IDENTIFICATION

This product was classified according to directives 67/548/EEC & 1999/45/EC, regulation (EC) No. 1272/2008 (CLP), Chemo. The structure is in accord to regulation (EC) No. 1907/2006. The mixture has not been tested "as is".

2.1 Classification of the substance or mixture:

Aspiration hazard, Category 1 H304

Specific target organ toxicity - single exposure, Category 3 H335

Specific target organ toxicity - repeated exposure, Category 1; Auditory system.

H372 67/548/EEC or 1999/45/EC

Hazard characteristics R-phrases)

Harmful. R10, R20, R36/38

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2.1. Label elements:

None

2.3. Other hazards:

Signal Words: Danger

CLP Hazard statements:

PHYSICAL HAZARDS: H226: Flammable liquid and vapor.

HEALTH HAZARDS: H332: Harmful if inhaled.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H315: Causes skin irritation.

H372: Causes damage to organs through prolonged or repeated exposure.

H304: May be fatal if swallowed and enters airways.

ENVIRONMENTAL HAZARDS:

Not classified as environmental hazard according to CLP criteria

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS No.	EC No.	Conc.	Class.
Bitumen (petroleum dist. vacuum residues)*	64741-56-6	265-057-8	< 60%	-
Xylene	1330-20-7	215-535-7	< 35%	-
Key Product	N/A	N/A	< 25%	-

* A complex residuum from the vacuum distillation of the residuum from atmospheric distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly greater than C34 and boiling above approximately 320°C (608°F). This substance is not listed in the Annex I of Regulation (EC) No 689/2008 on Export and Import of Dangerous Chemicals

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4. FIRST-AID MEASURES

4.1 Description of first aid measures

General information:	Take appropriate steps to avoid fire, explosion and inhalation hazards. DO NOT DELAY.
After inhalation:	Remove to fresh air. Do not attempt to rescue the victim unless proper respiratory protection is worn. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting, or unresponsive, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.
After skin contact:	DO NOT DELAY. Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.
After eye contact:	Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Transport to the nearest medical facility for additional treatment.
After ingestion:	If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38,3° C), shortness of breath, chest congestion or continued coughing or wheezing. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Give nothing by mouth. Do NOT induce vomiting.

4.2 Most important symptoms/effects, acute & delayed:

Breathing of high vapor concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death. Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing. Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters. Auditory system effects may include temporary hearing loss and/or ringing in the ears. Visual system disturbances may be evidenced by decreases in the ability to discriminate between colors.

4.3 Indication of any immediate medical attention and special treatment needed

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).



5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Suitable Extinguishing Media: Foam. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable Extinguishing Media: Do not use water jet.

5.2 Special hazards:

Flammable vapors may be present even at temperatures below the flash point. Sustained fire attack on vessels may result in a Boiling Liquid Expanding Vapor Explosion (BLEVE). Will float and can be reignited on surface water. The vapor is heavier than air, spreads along the ground and distant ignition is possible. Hazardous combustion products may include: Carbon monoxide, Formaldehyde

5.3 Advice for firefighters:

Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space. Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhaling vapor and/or mists. Stay upwind and keep out of low areas. Avoid contact with the skin. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of this Material Safety Data Sheet.

6.2 Environmental precautions

Remove all possible sources of ignition in the surrounding area. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapor or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Use appropriate containment to avoid environmental contamination. Ventilate contaminated area thoroughly.

6.3 Methods and materials for containment and cleaning up

Small spill: Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly. Shovel into a suitable clearly marked container for disposal or reclamation in accordance with local regulations. Flush contaminated area with plenty of water. Do not flush away residues with water. Retain as

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contaminated waste. For small liquid spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

6.4 Further precautions:

Proper disposal should be evaluated based on regulatory status of this material (refer to Section 13), potential contamination from subsequent use and spillage, and regulations governing disposal in the local area. Local authorities should be advised if significant spillages cannot be contained. Observe all relevant local regulations. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Risk of explosion. Inform the emergency services if liquid enters surface water drains. Vapor may form an explosive mixture with air. The vapor is heavier than air, spreads along the ground and distant ignition is possible. Run-off may cause a fire or explosion hazard. Monitor area with combustible gas indicator.

7. HANDLING AND STORAGE

General precautions

Contaminated leather articles including shoes cannot be decontaminated and should be destroyed to prevent reuse. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Air-dry contaminated clothing in a well-ventilated area before laundering.

7.1 Precautions for safe handling

Ambient. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Avoid breathing vapors or contact with material. Only use in well ventilated areas. Wash thoroughly after handling. On guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. Ensure electrical continuity by bonding and grounding (earthling) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (≤ 1 m/sec until fill pipe submerged to twice its diameter, then ≤ 7 m/sec). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations. Local exhaust ventilation is recommended. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. Polymerization may cause violent rupture of cargo tanks or piping. Surfaces that are sufficiently hot may ignite liquid material. Maintain dissolved oxygen and inhibitor at proper levels to prevent runaway polymerization. The vapor is heavier than air, spreads along the ground and distant ignition is possible.

7.2 Conditions for safe storage, including any incompatibilities

Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Must be stored in a well-ventilated area, away from sunlight, ignition sources and other sources of heat. 25 °C / 77 °F maximum.



7.3 Specific end use(s) Industrial applications

This product is a component for production mixtures for road maintenance and crack repairs.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits: The main effect of inhaling xylene vapor is depression of the central nervous system, with symptoms such as headache, dizziness, nausea and vomiting.

Additional Information: Wash hands before eating, drinking, smoking and using the toilet. Launder contaminated clothing before re-use.

8.2 Exposure Controls

General Information : Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapor. The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Use sealed systems as far as possible. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated. Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Exhaust emission systems should be designed in accordance with local conditions; the air should always be moved away from the source of vapor generation and the person working at this point. Provide adequate ventilation in storage areas. Eye washes and showers for emergency use.

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)

Body protection



Chemical resistant gloves/gauntlets, boots, and apron. Where risk of splashing or in spillage clean up, use chemical resistant one-piece overall with integral hood and chemical resistant gloves. Otherwise use chemical resistant apron and gauntlets.

Other

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

8.2.3 Environmental Exposure Controls: Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	Black liquid.
Odour:	Aromatic hydrocarbon and bitumen
Boiling Point (°C):	Not available.
Flash Point (°C):	> 35 °C - 65 °C. adjustable
Specific gravity:	about 0.95 (Water = 1)
Vapor pressure:	Not available.
Vapor density:	Heavier than air.
Volatility:	Not available.



Viscosity: about 200-300 cPs in ambient temperature.

Solubility: Insoluble in water.

9.2. Other information: None

10. STABILITY AND REACTIVITY

10.1. Reactivity: Reacts with - Strong oxidizing agents. Risk of fire and expositions.

10.2. Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions: Normally stable under ambient conditions and if properly inhibited.

10.4. Conditions to avoid: Keep away from heat, sources of ignition and direct sunlight.

10.5. Incompatible materials: Oxidizing agents.

10.6. Hazardous decomposition products: May give off toxic fumes in a fire: Carbon monoxide, Carbon dioxide and various hydrocarbons.

10.7. Sensitivity to Static Discharge: Yes.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

Acute toxicity:

Inhalation toxicity: No information available

Skin Contact: Non-irritating to the skin.

Remarks: Stream expected to be no more than slightly irritating to the skin based on toxicity information for streams having components in common with this stream. These effects are not considered to warrant classification as a skin irritant

Eye Contact: No information available.

Skin corrosion/irritation: Non-irritant.

Remarks: Stream expected to be no more than transient, fully reversible irritating to the eye based on toxicity information for streams having components in common with this stream. These effects are not considered to warrant classification as an eye irritant.

Serious eye damage/irritation: May cause eye irritation.



Respiratory or skin sensitization:	Negative.
Mutagenicity:	There is no evidence of mutagenic potential.
Carcinogenicity:	No evidence of carcinogenicity.
Reproductive toxicity:	Negative.
STOT-single exposure:	Negative.
STOT-repeated exposure:	Negative.
Aspiration hazard:	Negative.
Other information:	No information available

12. ECOLOGICAL INFORMATION

12.1. Toxicity:	LC50 (Fish):	LL50: > 1,000 mg/l	Exposure time: 96 HOURS
	EC50 (Daphnia magna):	LL50: > 1,000 mg/l	Exposure time: 48 HOURS
	EC50 (Algae):	EL50: > 1,000 mg/l	Exposure time: 72 HOURS

**All based on Quantitative structure-activity relationship (QSAR) estimation.*

NOEL:	No information available.
NOEC:	No information available.
log Kow:	No information available.
WGK:	Not classified.

12.2. Persistence and degradability:	Readily biodegradable.
12.3. Bio accumulative potential:	The substance has low potential for bioaccumulation.
12.4. Mobility in soil:	The substance contains hydrocarbon UVCB. Limited mobility in soil is expected.
12.5. Results of PBT and vPvB assessment:	Not classified as PBT or vPvB.
12.6. Other adverse effects:	No information available.



13. DISPOSAL CONSIDERATIONS

Do not empty into drains; dispose of this material and its container in a safe way. To be disposed in accordance with local, state or national legislation.

14. TRANSPORT INFORMATION

- 14.1. UN number:** Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.
- 14.2. UN proper shipping name:** Not applicable.
- 14.3. Transport hazard class(es):** Not applicable.
- 14.4. Packing group:** Not applicable.
- 14.5. Environmental hazards:** Readily biodegradable, contains hydrocarbon UVCB.
- 14.6. Special precautions for user:** Slipping hazard.
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** -

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

According to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictogram(s): None.

Signal word(s): None.

Hazard statement(s): None.

Supplemental Hazard Information: None.

Precautionary statement(s): None.

According to Directive 67/548/EEC & Directive 1999/45/EC

Hazard pictogram(s): None.



Hazard Symbol: None.

Risk Phrases: None.

Safety Phrases: None.

According to the Swiss Chemicals Ordinance, ChemO

Hazard pictogram(s): None.

Signal word(s): None.

Hazard statement(s): None.

Supplemental Hazard Information: None.

Precautionary statement(s): None.

Switzerland

LRV Klasse (Ta-Luft) : Not available.

BAGT: None.

15.2. Chemical safety assessment: -

16. OTHER INFORMATION

Full text of Hazard statements and Risk phrases for pure substances listed in section 3.

Hazard Symbol: None.

Risk Phrases: None.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)



RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
IATA-DGR:	Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO:	International Civil Aviation Organization
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent

Disclaimer:

The information and recommendations contained herein are based upon data believed to be up-to-date and correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information and recommendations contained herein. We accept no responsibility and disclaim all liability for any harmful effects that may be caused by (incorrect) use, handling, purchase, resale, or exposure to our product. Customers and users of our product must comply with all applicable health and safety laws, regulations, and orders. In particular, they are under an obligation to carry out a risk assessment for the particular work places and to take adequate risk management measures in accordance with the national implementation legislation of EU Directives 89/391 and 98/24.