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SECTION 1. IDENTIFICATION

Product Identifier used on the label: **Tire Sealant "Lok-Air' 66"', Tire Sealant "Lok-Air "55"**
Product Code(s): Not available
Recommended use of the chemical and restrictions on use: Tire Sealant
Chemical Family: Proprietary Formulation

Named, address and telephone number of the Manufacturer:

LOK-AIR Inc.
50 Crimea Street
Guelph, Ontario N1H 2Y6
Canada
Supplier's Telephone #: 519-836-2632
24Hr. Emergency Tel#: CANUTEC 1-888-226-8832

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical: Grey or Green liquid gel, slight sweet odour.

This material contains Ethylene Glycol, which is classified as hazardous under OSHA regulations(29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).
Hazard classification
Acute toxicity, oral-Category 4
Reproductive toxicity-Category 2
Specific target organ toxicity, single exposure - Category 2(kidneys)
Specific Target Organ Toxicity, Single Exposure - Category 3 (cns)

Label elements
Hazard pictogram(s)

Signal Word
Warning!

Hazard statement(s)
Harmful if swallowed.
Suspected of damaging the unborn child.
May cause damage to the kidneys if swallowed.
May cause drowsiness or dizziness.

Precautionary statement(s)
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.

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Precautionary statement(s)continued:
Use only outdoors or in a well-ventilated area.
Do not breathe mist or vapour.
Wear protective gloves/clothing and eye/face protection.
If exposed or concerned: Call a POISON CENTRE or doctor/physician.

IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
Rinse mouth.
Call a POISON CENTRE or doctor/physician if you feel unwell.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards
Other hazards which do not result in classification:
May cause eye, skin and respiratory tract irritation.

SECTION 3. Composition/information on ingredients

Component	CAS#	Percent by Weight
Proprietary Ingredients	NA	60% to 70%
Ethylene glycol-EG	107-21-1	30% to 40%

SECTION 4. FIRST AID MEASURES

Description of first aid measures

Ingestion : Call a physician or poison control centre immediately. Induce vomiting ONLY under the direct supervision of qualified medical personnel or a poison control centre. Never give anything by mouth to an unconscious person.

Inhalation : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. Get medical attention.

Skin contact : Immediately flush with plenty of water, while removing contaminated c clothing. If irritation persists, seek prompt medical attention.

Eye contact : Immediately flush eye(s) with plenty of water. After initial flushing, remove any contact lenses if worn, and continue flushing for at least 5 to 10 minutes. If irritation persists, seek prompt medical attention.

Most important symptoms and effects, both acute and delayed

: Harmful if swallowed**.** May cause damage to the kidneys if swallowed. may cause drowsiness or dizziness. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. May cause slight eye and skin irritation.

Suspected of damaging the unborn child.

Indication of any immediate medical attention and special treatment needed

: Immediate medical attention is required. May be harmful or fatal if swallowed. Use of ethanol may be helpful to counter the toxic effects of ethylene glycol by interfering with the absorption rate in the stomach and intestine. Onset of symptoms may be delayed for 18 to 24 hours after ingestion. Symptoms may be delayed.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

: Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

: Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture/Conditions of flammability

: Burning produces obnoxious and toxic fumes.

Flammability classification (OSHA 29 CFR 1910.106)

: Not flammable.

Hazardous combustion products

: Carbon oxides, formaldehyde and other irritating fumes and smoke.

Special protective equipment and precautions for firefighters

Protective equipment for firefighters

: Firefighters must use standard protective equipment including flam retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

Environmental precautions : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

Methods and material for containment and cleaning up

: Ventilate the area. Stop spill or leak at source if safely possible. Dike for water control. Contain and absorb spilled liquid with non-combustible, inert absorbent material(e.g. sand), then place absorbent material into a container for later disposal(see Section 13).

Special spill response procedures

: If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response centre in the United States(phone: 1-800-424-8802)

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

:Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/clothing and eye/face protection. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment. Use with adequate ventilation. Do not ingest. Do not breathe mist or vapour. Avoid contact with eyes, skin and clothing. Wash with soap and water after handling. Keep away from extreme heat and flame. Keep away from acids and other incompatibles. Use caution when opening lid. Keep containers tightly closed when not in use.

Conditions for safe storage : Store in a cool, dry, well-ventilated area. Store away from areas of excessive heat, open flames, sparks, and other possible sources of ignition. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

Incompatible materials : Strong oxidizing agents..

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls

Ventilation and engineering measures

: Use sufficient mechanical ventilation to maintain exposures below the TLV. Use local exhaust if mist or spray is generated.

Respiration protection : Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Seek

advice from respiratory protections specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA(29 CFR 1910.134) or CSA Z94.4-02.

Skin protection : Wear impervious gloves,. Advice should be sought from glove suppliers.

Eye/face protection : Chemical goggles are recommended when there is a potential for splashing.

Other protective equipment

: Emergency showers and eyewash facilities should be nearby. Wear a chemically resistant apron and long sleeves when dispensing, to prevent skin contact.

General hygiene considerations

:Avoid contact with eyes, skin and clothing. When using do not eat or drink. When using do not smoke. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Medium grey or green
Odour : Slight sweet odour may be detected.
Odour threshold : N/D
Melting/Freezing point :-40 °C
Initial boiling point and boiling range
: 175 °C (347 F)
Flash Point :116 °C, Tag Closed Cup, ASTM D 56
Flash Point Method :116 °C, Cleveland Open Cup, ASTM D 92
Evaporation Rate : 2.24 >.01
Lower Flammable limit :3.2 (% by volume)
Upper Flammable limit :15.3 (% by volume)
Oxidizing properties : None known
Explosive properties : Non known
Vapour pressure :7kPa at 38 °C
0.08 mgHg at 20 °C
Vapour density(Air = 1) : >1
Relative density/Specific gravity(Water=1)
:1.08 at 16 °C
Solubility in water :Completely miscible
Coeffient of Water/Oil Distribution: N/D
Autoignition Temperature : N/D

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Decomposition temperature: N/A
Viscosity : N/D
Volatiles (%by weight) : N/D
Volatile organic Compounds(VOC's)
: N/A
Absolute pressure of container
: N/Ap
Flame projection length : N/Ap
Other physical/chemical comments
: Liquid Gel

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions
: no dangerous reaction known under conditions of normal use.
Conditions to avoid : Avoid excessive heat, sparks and open flames. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.
Incompatible materials : Strong oxidizing agents and materials reactive with hydroxyl compounds.
Hazardous decompostion products
: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:
Routes of entry inhalation : Yes
Routes of entry skin & eye : Yes
Routes of entry ingestion :Yes
Routes of exposure skin absorption: Yes

Potential Health Effects:
Signs and symptoms of short-term(acute) exposure

Sign and symptoms Inhalation
:May cause irritation of the nose and throat with headache. High vapour concentrations(caused, for example, by heating the material in an enclosed and poorly ventilated workplace) may produce nausea, vomiting, headache, dizziness, and irregular eye movements.
Sign and symptoms ingestion
:May cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, malaise, blurring of vision, irritability, lumbar pain, olguria,

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uremia and central nervous system effects, including irregular eye movements, convulsions and coma. Cardiac failure and pulmonary oedema may develop. Severe kidney damage follows the swallowing of large volumes of ethylene glycol(lethal dose for humans reported to be 100ml) May be fatal. Could also cause convulsions, coma, respiratory arrest and death.

Sign and symptoms skin

: May cause mild skin irritation. No evidence of adverse effects from available information.

Sign and symptoms eyes

:May cause mild eye irritation, experienced as stinging, excess blinking and tear production, with excess redness of the conjunctiva. Injury to the cornea is not expected.

Potential Chronic Health Effects

: Prolonged or repeated ingestion may cause bladder or kidney stones, may aggravate existing kidney disease.

Mutagenicity : Not expected to be mutagenic.

Carcinogenicity : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity

: Ethylene Glycol is classified as hazardous under U.S. OSHA regulations(29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).
Classification: Reproductive toxicity-Category 2
Suspected of damaging the unborn child.

Sensitization to material:

:Not expected to be a skin or respiratory sensitizer.

Specific target organ effects

:Eyes, skin, respiratory system, central nervous system, liver and kidneys.
Ethylene Glycol is classified as hazardous under U.S. OSHA regulations(29 CFR 1910.1200)) (Hazcom 2010) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).
Classification: Specific target organ toxicity, single exposure-Category 2
Specific Target Organ Toxicity, Single Exposure- Category 3(cns)
May cause damage to the kidneys if swallowed.
May cause drowsiness or dizziness.

Not classified as a specific target organ toxicity-repeated exposure.

Medical conditions aggravated by overexposure

: Pre-existing skin or eye disorders, and impaired liver or kidney functions.

Synergistic materials : Not available.

Toxicological data : See below for toxicological data on Ethylene Glycol.

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Chemical Name	**LC_{50}(4hr) inh, rat**	**LD_{50}** (Oral, rat)	**(Rabbit, dermal)**
Ethylene glycol	4300 ppm (10.92mg/L) (Aerosol)	4000mg/kg(rat) The estimated human Lethal dose is:1110-1665 mg/kg	9530mg/kg

Other important toxicological hazards
: CNS depression may result from extreme exposures.

SECTION 12. ECOLOGICAL INFORMATION

Persistence and Degradability :Readily biodegradable.
Bioaccumulation Potential : No data is available on the product itself.
Mobility in Soil : No data is available on the product itself.
Other Adverse Environmental effects: No data is available on the product itself.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle waste according to recommendations in Section 7.
Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.
RCFA : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	**UN Number**	**UN proper shipping name**	**Transport Hazard class(es)**	**Packing Group**	**Label**
49CFR/DOT	None	Not regulated.	Not regulated	None	
49CFR/DOT additional information	None				
TDG	None	Not regulated	Not regulated	None	
TDG additional information	None				

Special precautions for user : None known .
Environmental hazards : See ECOLOGICAL INFORMATION, Section 12.

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SECTION 15. REGULATORY INFORMATION

TDG Classification :Shipping Name: Non-regulated
UN: :N/R
Class :Non-regulated
PKG. :N/A
WHMIS Classification : Refer to Section 2 for a WHMIS Classification for this product.
D.2A D.2B

Listed on the Domestic Substances List(DSL)
:All ingredients are present on the DSL.

Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state, provincial and/or local reporting requirements. This product and/or its constituents may also be subject to other regulations at the state, provincial and/or local level. Consult those regulations applicable to your facility/operation.

SECTION 16. OTHER INFORMATION

Legend :ACGIH: American Conference of Governmental Industrial Hygienists
:CA: California
:CAS: Chemical Abstract Services
:CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980.
CFR: Code of Federal Regulations.
COC: Cleveland Open Cup
CSA: Canadian Standards Association
DOT: Department of Transportation
EPA: Environmental Protection Agency
HMIS: Hazardous Materials Identification System
HSDB: Hazardous Substances Data Bank
IARC: International Agency of Research on Cancer
Inh: Inhalation
LC: Lethal Concentration
LD: Lethal Dose
MA: Massachusetts
MN: Minnesota
N/Ap: Not Applicable
N/Av: Not Available
NFPA: National Fire Protection Association
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TLV: Threshold Limit Values
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

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References: Canadian Centre for Occupational Health and Safety,
SDS, Material Safety Data Sheet from source
OECD- The Global Portal to Information on Chemical Substances-eChemPortal, 2015

Other special considerations for handling
: Provide adequate information, instruction and training for operators.

HMIS Rating	:*-Chronic hazard	0-Minimal	1-Slight	2-Moderate	3-Serious	4-Severe
Health:	*2	Flammability: 1		Reactivity: 0		

NFPA Rating				
Health: 2	Flammability: 1	Instability: 0	Special Hazards: None	

Prepared by:
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50 Crimea St.,
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Information (M-F8:30-4:30): 519-836-2632
SDS Status: Revision 0; updated to GHS standard

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