

## **SAFETY DATA SHEET**

### **SECTION 1. IDENTIFICATION**

Product Identifier used on the label: **Tire Sealant "Lok-Air" 66", Tire Sealant "Lok-Air "55", "2020", "Air Lock", "12121G-Premier", "12125G-Premier"**

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.

**LOK-AIR INC.**

**Tire Sealant Lok-Air "66", Tire Sealant Lok-Air "55"**

**SDS Preparation Date: 11/30/2018**

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**Information(M-F8:30-4:30)519-836-2632**

**Page 2 of 10**

## **SAFETY DATA SHEET**

### **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**

<b>Component</b>	<b>CAS#</b>	<b>Percent by Weight</b>
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 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.

**LOK-AIR INC.**  
**Tire Sealant Lok-Air "66", Tire Sealant Lok-Air "55"**  
**SDS Preparation Date: 11/30/2018**

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**Information(M-F8:30-4:30)519-836-2632**  
**Page 3 of 10**

## **SAFETY DATA SHEET**

---

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**

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### **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**

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### **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.

## SAFETY DATA SHEET

---

**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

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**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

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**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

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**Information(M-F8:30-4:30)519-836-2632**

**Page 5 of 10**

## **SAFETY DATA SHEET**

---

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**

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**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

Coefficient of Water/Oil Distribution: N/D

Autoignition Temperature : N/D

**LOK-AIR INC.**

**Tire Sealant Lok-Air "66", Tire Sealant Lok-Air "55"**

**SDS Preparation Date: 11/30/2018**

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**Canada**

**Information(M-F8:30-4:30)519-836-2632**

**Page 6 of 10**

## **SAFETY DATA SHEET**

---

**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 decomposition 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, oliguria,

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**SDS Preparation Date: 11/30/2018**

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**Canada**  
**Information(M-F8:30-4:30)519-836-2632**  
**Page 7 of 10**

## **SAFETY DATA SHEET**

---

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.

**LOK-AIR INC.**  
**Tire Sealant Lok-Air "66", Tire Sealant Lok-Air "55"**  
**SDS Preparation Date: 11/30/2018**

**LOK-AIR Inc.**  
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**Canada**  
**Information(M-F8:30-4:30)519-836-2632**  
**Page 8 of 10**

## SAFETY DATA SHEET

<b>Chemical Name</b>	<b>LC<sub>50</sub>(4hr)</b> <b>inh, rat</b>	<b>LD<sub>50</sub></b> <b>(Oral, rat)</b>	<b>(Rabbit, dermal)</b>
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

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

information

**Special precautions for user** : None known .

**Environmental hazards** : See ECOLOGICAL INFORMATION, Section 12.

**LOK-AIR INC.**

**Tire Sealant Lok-Air "66", Tire Sealant Lok-Air "55"**

**SDS Preparation Date: 11/30/2018**

**LOK-AIR Inc.**

**50 Crimea St.,**

**Guelph, ON N1H 2Y6**

**Canada**

**Information(M-F8:30-4:30)519-836-2632**

**Page 9 of 10**

## **SAFETY DATA SHEET**

### **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

**LOK-AIR INC.**  
**Tire Sealant Lok-Air "66", Tire Sealant Lok-Air "55"**  
**SDS Preparation Date: 11/30/2018**

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**Canada**  
**Information(M-F8:30-4:30)519-836-2632**  
**Page 10 of 10**

## **SAFETY DATA SHEET**

---

**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

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**SDS Status:**                      Revision 0; updated to GHS standard

### **DISCLAIMER**

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