

## Safety Data Sheet

### 1 IDENTIFICATION

**Product Name:**

**Lorox<sup>®</sup> L**

Agricultural Herbicide

**Registration No.:**

16279

**Chemical Family:**

Phenylurea herbicide

**Manufacturer/Supplier:**




Tesserlo Kerley Inc.  
 2255 N. 44<sup>th</sup> Street, Suite 300  
 Phoenix, Arizona 85008-3279  
 Information: (602) 889-8300

**For 24-Hour Emergency Assistance (Spill, Leak, Fire, or Exposure), Call CHEMTREC<sup>®</sup>:**

(800) 424-9300 (CHEMTREC)  
 (866) 374-1975 (Tesserlo Kerley)

### 2 HAZARD(S) IDENTIFICATION

**Classification of the substance or mixture**

Pictogram	Hazard Statements	Precautionary Statements
	Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. If exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container in accordance with local and state regulations.
	Harmful if swallowed or inhaled.	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Use personal protective equipment as required.
	Toxic to aquatic life.	Avoid release to the environment.

**Signal Word:** Warning

**NFPA Hazard Ratings**



**HMIS Ratings**



### 3 COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization:** Mixture

**Description:** Mixture of the substance(s) listed below with nonhazardous additions.

	Component	CAS No.	% by Weight
<b>Active Ingredient:</b>	Linuron (ISO)	330-55-2	40.6%

### 4 FIRST AID MEASURES

**Description of first aid measures**

**General information:**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies involving this product, call toll free 1-866-374-1975. See Label for Additional Precautions and Directions for Use.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

### 5 FIRE FIGHTING MEASURES

**Extinguishing media**

**Suitable extinguishing agents:**

Use firefighting measures that suit the environment.

**Special hazards arising from the substance or mixture**

No relevant information available.

**Advice for firefighters**

**Protective equipment:**

Wear self-contained breathing apparatus, pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 HANDLING and STORAGE

### **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Avoid prolonged or repeated exposure.

Personnel must refer to the Product Label and Directions For Use attached to the product for agricultural use requirements.

**Information about protection against explosions and fires:** Keep protective respiratory device available.

### **Conditions for safe storage, including any incompatibilities**

Store in a cool, dry place.

Store in a well ventilated place.

Keep away from any sources of heat or flame.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Additional information:**

Personnel who handle this product in its end-use application should use this product only in accordance with its pesticide labeling.

### **Exposure controls**

#### **Personal protective equipment:**

##### **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

##### **Breathing equipment:**

Use NIOSH approved, dual cartridge respirators for dusts or mists if local ventilation is inadequate (N, R or P class filter media with NIOSH approved prefix TC-84A).

##### **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product.

### **Material of gloves**

Butyl rubber, BR

Natural rubber, NR

Nitrile rubber, NBR

Neoprene gloves

### **Penetration time of glove material**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

### **Eye protection:**

Tightly sealed goggles

Face protection

### **Body protection:**

Wear long-sleeved shirt and long pants, waterproof shoes and socks. Wash contaminated clothing before reuse.

## 9 PHYSICAL and CHEMICAL PROPERTIES

<b>Appearance</b>	Light tan liquid
<b>Odor</b>	Weak, characteristic
<b>Odor Threshold</b>	Not determined
<b>pH</b>	7.1
<b>Melting/Freezing Point</b>	Not determined
<b>Boiling Point</b>	103 +/- 3 °C (217 +/- 37 °F)
<b>Flash Point</b>	N/A
<b>Danger of Explosion</b>	N/A
<b>Flammability (Solid/Gas)</b>	Product does not present an explosion hazard
<b>Upper/Lower Flammability or Explosive Limits</b>	Not determined
<b>Vapor Pressure</b>	Not determined
<b>Vapor Density</b>	Not determined
<b>Relative Density</b>	Not determined
<b>Density @ 20°C (68°F)</b>	9.94 lb/gal
<b>Solubility (in Water)</b>	Disperses to form a suspension. Solubility of Linuron in water is 75 ppm
<b>Partition Coefficient: n-octanol/water</b>	Not determined
<b>Auto-ignition temperature</b>	Product is not self-igniting
<b>Solvent content</b>	40.6%
<b>Viscosity</b>	Not determined

## 10 STABILITY and REACTIVITY

<b>Reactivity</b>	N/A
<b>Chemical stability</b>	This is a stable material under normal temperature and storage conditions.
<b>Possibility of hazardous reactions</b>	Will not occur
<b>Conditions to avoid</b>	No further relevant information available.
<b>Incompatible materials</b>	None known
<b>Hazardous decomposition products:</b>	None known

## 11 TOXICOLOGICAL INFORMATION

### **Acute toxicity:**

#### **LD/LC<sub>50</sub> values relevant for classification:**

<b>Oral</b>	Rat LD <sub>50</sub>	3,540 mg/kg (male), 3,247 mg/kg (female)
<b>Dermal</b>	Rabbit LD <sub>50</sub> :	>2,000 mg/kg
<b>Inhalation</b>	Rat LC <sub>50</sub> :	>1.7 mg/L (4 hr exposure)
<b>Eye Irritation</b>		Not irritating to the eyes of rabbits
<b>Skin Irritation</b>		Not irritating to the skin of rabbits

This information is based on the active ingredient: Linuron

**Mutagenicity / genotoxicity** Not mutagenic or genotoxic

**Reproductive Toxicity** Not a developmental or reproductive toxin

**Carcinogenicity Assessment** Category C without Q<sub>1</sub>\* (Possible Human Carcinogen) by USEPA  
 Not listed by IARC (International Agency for Research on Cancer),  
 NTP (National Toxicology Program) or OSHA-Ca (Occupational Safety & Health Administration)

## 12 ECOLOGICAL INFORMATION

*This information is based on the active ingredient: Linuron*

### **Aquatic Toxicity**

96 hour LC <sub>50</sub>	Bluegill sunfish:	9.6 mg/L
96 hour LC <sub>50</sub>	Rainbow trout:	3.15 mg/L
48 hour EC <sub>50</sub>	Water flea ( <i>Daphnia magna</i> ):	0.12mg/L
96 hour LC <sub>50</sub>	Sheephead minnow:	0.89 mg/L
72 hour EC <sub>50</sub>	Algae ( <i>S. subspicatis</i> ):	0.016 mg/L
21-day NOEC	Rainbow trout:	0.1 mg/L
21-day NOEC	Water flea ( <i>Daphnia magna</i> ):	0.18 mg/L

### **Avian Toxicity**

Acute Oral LD <sub>50</sub>	Bobwhite quail	940 mg/Kg
Subacute Oral LC <sub>50</sub>	Bobwhite quail	1250 ppm
Subacute Oral LC <sub>50</sub>	Mallard duck	3083 ppm

### **AQUATIC TOXICITY**

96 hour LC <sub>50</sub>	Fathead minnows	49,000 mg/L
48 hour EC <sub>50</sub>	Daphnia magna,	46,300 mg/L
96 hour EC <sub>50</sub>	Algae	10,940 mg/L

*This information is based on the ingredient: Linuron*

### **Persistence and Degradability**

Plants: In plants, metabolism involves demethylation and demethoxylation

Soil and water: Microbial degradation is the primary factor in disappearance from soil. Half-life under field conditions is c. 2-5 months, F. Kempson-Jones and R. J. Hance *Pestic. Sci.*, 1979, 10: 449. In soil, DT50 38-67 d. Soil adsorption K<sub>oc</sub> 500-600.

### **Mobility**

This chemical is known to leach through soil into ground water under certain conditions as a result of agricultural use.

## 13 DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or a Hazardous Waste Representative for guidance.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure 2 more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities by burning. If burned, stay out of smoke.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call 1- (800) 424-9300 (CHEMTREC) day or night.

## 14 TRANSPORT INFORMATION

### UN Number

DOT\*, TDG\*, ADR, IMDG, IATA UN3082

### UN Proper shipping name:

DOT*	Environmentally hazardous substance, liquid, n.o.s
TDG*	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
ADR	UN3082, Environmentally hazardous substance, liquid, n.o.s.
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, liquid, n.o.s. (linuron(ISO)), MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, liquid, n.o.s.

### Transport hazard class(es)

DOT\*, TDG\*



Class  
ADR, IMDG

9 Miscellaneous dangerous substances and articles



Class  
Label  
IATA

9 Miscellaneous dangerous substances and articles  
9



Class  
Label

9 Miscellaneous dangerous substances and articles  
9

Packing group

DOT\*, TDG\*, ADR, IMDG, IATA III

### Environmental hazards:

Product contains environmentally hazardous substances: linuron (ISO)

### Marine pollutant:

Yes

### Special marking (ADR):

Symbol (fish and tree)

### Special marking (IATA):

Symbol (fish and tree)

### Special precautions for user

Warning: Miscellaneous dangerous substances and articles

### EMS Number:

F-A,S-F

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

### Transport/

### \*Additional information:

In accordance with 49 CFR 171.4(c), non-bulk packagings (max capacity of 119 gal (450 L) or less for liquids or 882 lbs (400 kg) or less for solids) transported by motor vehicle, rail car or aircraft are excepted from all Marine Pollutants regulations in 49 CFR and therefore treated as non-hazardous material. All bulk shipments or any shipment transported partially or entirely by vessel are treated as regulated Marine Pollutants and are shipped according to the requirements listed above.

## 14 TRANSPORT INFORMATION *(continued)*

### ADR

#### Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

### IMDG

#### Limited quantities (LQ)

5L

#### Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

### UN "Model Regulation"

UN3082 Environmentally hazardous substance, liquid, n.o.s., 9, III

## 15 REGULATORY INFORMATION

### Canadian Regulations

**WHMIS classification for product:** Exempt

Other regulations; restrictions and prohibitions:

Pest Control Products (PCP) Act Registration No.: 16279

### Non-Domestic Substance List

<u>Chemical name</u>	<u>CAS No.</u>	<u>Concentration</u>
Linuron	330-55-2	40.6%

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Section 355 (extremely hazardous substances): None of the ingredients is listed.

Section 313 (Toxic Release Reporting-Form R):

<u>Chemical name</u>	<u>CAS No.</u>	<u>Concentration</u>
Linuron	330-55-2	40.6%

**TSCA (Toxic Substances Control Act):** Exempt from TSCA

### Proposition 65

This product contains chemicals known to the state of California to cause developmental toxicity.

### RCRA Classification

Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

### National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

## 16 OTHER INFORMATION

Issue Date: April 26, 2020

**REVISIONS:** Section 9 – corrected weight (density). Section 12 – oversight corrected within Aquatic Toxicity. Sections 3, 8, 12, and 15 – Removed Ethylene Glycol as an ingredient as it is no longer used in this formulation.

The information and recommendations contained herein are provided in good faith and are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information herein.

Lorox® and NovaSource® are registered trademarks of Tessengerlo Kerley, Inc. All rights reserved.