

## SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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### SureKill® Advanced Insecticide Products LD-44T™

Revision 2  
Revision date 2019-09-13

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

<b>Product name</b>	SureKill® Advanced Insecticide Products LD-44T™
<b>Product code</b>	0073010, 0073011

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

<b>Product Use</b>	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC8] Biocidal products (e.g. Disinfectants, pest control);
<b>Description</b>	Aerosol insecticide.

##### 1.3. Details of the supplier of the safety data sheet

<b>Company</b>	Neogen Corporation
<b>Address</b>	620 Leshar Place Lansing MI 48912 USA
<b>Web</b>	www.neogen.com
<b>Telephone</b>	517-372-9200/800-234-5333
<b>Email</b>	SDS@neogen.com

##### 1.4. Emergency telephone number

	24 hours: Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international) Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)
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##### Further information

<b>Manufactured By:</b>	Chem-Tech Ltd. 1006 Business Highway 5 Pleasantville, IA 50225 U.S.A.  Chem-Tech Ltd. is a wholly-owned subsidiary of Neogen Corporation.
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#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

<b>2.1.2. Classification - GHS</b>	: EUH066; Liquified gas: H280; Eye Irrit. 2: H319; STOT SE 3: H336; Aquatic Chronic 2: H411;
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##### 2.2. Label elements

##### Hazard pictograms



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## 2.2. Label elements

<b>Signal Word</b>	Warning
<b>Hazard Statement</b>	EUH066 - Repeated exposure may cause skin dryness or cracking. Liquified gas: H280 - Contains gas under pressure; may explode if heated. Eye Irrit. 2: H319 - Causes serious eye irritation. STOT SE 3: H336 - May cause drowsiness or dizziness. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
<b>Precautionary Statement: Prevention</b>	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary Statement: Response</b>	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 - Call a POISON CENTER/doctor/ /if you feel unwell. P337+P313 - If eye irritation persists: Get medical advice/attention.
<b>Precautionary Statement: Disposal</b>	P501 - Dispose of contents/container to an approved waste disposal facility in accordance with local and national regulations.

## 2.3. Other hazards

<b>Other hazards</b>	Combustible. Contains substance(s) which are hazardous to the environment.
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## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Isobutane (Butane)	601-004-00-0	75-28-5	200-857-2		30 - 40%	Flam. Gas 1: H220;
Propane	601-003-00-5	74-98-6	200-827-9		20 - 30%	Flam. Gas 1: H220;
Acetone	606-001-00-8	67-64-1	200-662-2		20 - 30%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;
n-Octyl bicycloheptene dicarboximide		113-48-4	204-029-1		1 - 10%	Acute Tox. 3: H311;
Piperonyl butoxide		51-03-6	200-076-7		1 - 10%	Aquatic Acute 1: H400; Aquatic Chronic 1: H410;
Pyrethrins (Pyrethrum)		8003-34-7			0.5 - 1%	Acute Tox. 4: H302+H312+H332; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;

## Description

	Concentrations listed are not product specifications.
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## Further information

	Full text of Hazard Statements listed in this Section is provided in Section 16.
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## SECTION 4: First aid measures

## 4.1. Description of first aid measures

<b>Inhalation</b>	Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration. Seek medical attention if irritation or symptoms persist.
<b>Eye contact</b>	Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention

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Skin contact	if irritation or symptoms persist.
	Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation or symptoms persist.
Ingestion	Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give any liquid to the patient. Get medical advice/attention if you feel unwell.

**4.2. Most important symptoms and effects, both acute and delayed**

Inhalation	May cause dizziness and headache. May cause irritation to respiratory system.
Eye contact	Causes serious eye irritation.
Skin contact	May cause irritation to skin.
Ingestion	Ingestion may cause nausea and vomiting.

**4.3. Indication of any immediate medical attention and special treatment needed**

	Remove the affected person from the source of contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. Seek medical attention if irritation or symptoms persist. If medical advice is needed, have product container or label at hand.
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**Further information**

	Refer to product label for FIFRA-required First Aid directions.
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**SECTION 5: Firefighting measures****5.1. Extinguishing media**

	Use extinguishing media appropriate to the surrounding fire conditions.
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**5.2. Special hazards arising from the substance or mixture**

	Combustible liquid. Contains gas under pressure; may explode if heated.
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**5.3. Advice for firefighters**

	Move containers away from fire if it can be done without risk. Fire will produce dense black smoke. In case of fire and/or explosion do not breathe fumes. Wear: Self-contained breathing apparatus.
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**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

	Use as appropriate: Protective equipment, Protective clothing. Ensure adequate ventilation of the working area. Avoid prolonged or repeated exposure. In the event of a liquid spill, wear chemical protective equipment suitable for extremely low temperatures.
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**6.2. Environmental precautions**

	Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water. Do not flush into surface water. Do not let product contaminate subsoil.
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**6.3. Methods and material for containment and cleaning up**

	Absorb with inert, absorbent material. Collect spillage. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water. Do not contaminate water by cleaning of equipment or disposal of wastes.
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**6.4. Reference to other sections**

	See Section(s) 2, 8, and 13 for further information.
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**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

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## 7.1. Precautions for safe handling

	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes. Keep away from sources of ignition - No smoking. Do not eat, drink or smoke in areas where this product is used or stored. Ensure adequate ventilation of the working area. Do not contaminate water by cleaning of equipment or disposal of wastes. Read the entire label and follow all use directions, restrictions, and precautions. Use as appropriate: Protective clothing.
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## 7.2. Conditions for safe storage, including any incompatibilities

	Store in correctly labelled containers. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal. Follow label instructions. Keep at temperature not exceeding 54°C. Keep away from sources of ignition - No smoking.
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## 7.3. Specific end use(s)

	See Section(s) 1.2 for further information.
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## Further information

	Refer to product label for FIFRA-required Storage and Disposal directions.
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**SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

## Exposure Limit Values

Acetone	ACGIH TLV TWA: 500 Notations: A4; BEI OSHA PEL 8hr TWA mg m3: 2400 NIOSH REL 10hr TWA ppm: NIOSH REL 15 min ST ppm:	ACGIH TLV STEL: 750 OSHA PEL 8hr TWA ppm: 1000 Skin Designation: - NIOSH REL 10hr TWA mg m3: NIOSH REL 15 min ST mg m3:
Pyrethrins (Pyrethrum)	ACGIH TLV TWA: 5 mg/m <sup>3</sup> Notations: A4 OSHA PEL 8hr TWA mg m3: 5 NIOSH REL 10hr TWA ppm: NIOSH REL 15 min ST ppm:	ACGIH TLV STEL: - OSHA PEL 8hr TWA ppm: - Skin Designation: - NIOSH REL 10hr TWA mg m3: NIOSH REL 15 min ST mg m3:

DNEL: Derived no-effect level.

## Exposure Pattern - Workers

Acetone	Acute inhalation - Systemic effects 2420 mg/m <sup>3</sup> Long-term - inhalation - Systemic effects 1210 mg/m <sup>3</sup>	Long-term - dermal - Systemic effects 186 mg/kg
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## Exposure Pattern - General population

Acetone	Long-term - inhalation - Systemic effects 200 mg/m <sup>3</sup> Long-term - dermal - Systemic effects 62 mg/kg	Long-term - oral - Systemic effects 62 mg/kg
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## 8.2. Exposure controls

Appropriate engineering controls	Ensure adequate ventilation of the working area.
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## 8.2. Exposure controls

Individual protection measures	Use as appropriate: Protective equipment.
Eye / face protection	Use as appropriate: Suitable eye protection.
Skin protection - Hand protection	Use as appropriate: Chemical-resistant gloves made of any waterproof material.
Skin protection - Other	Use as appropriate: Protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Occupational exposure controls	Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Protect clothing from contact with the product. Provide chemical shower. Provide eye wash station.

## Further information

	Refer to product label for additional PPE requirements and recommendations. Follow label instructions.
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## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

State	Aerosol
Color	Clear
Odor	Characteristic
Odor threshold	No data available
pH	No data available
Melting point	No data available
Freezing Point	No data available
Boiling point	-31.6111 - -11.7222 °C
Flash point	No data available
Evaporation rate	No data available
Flammability limits	Flame extension: 16"
Upper Explosive Limit	9.5 %
Lower Explosive Limit	1.8 %
Vapor pressure	70 Pa
Vapor density	1.766
Relative density	0.653
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Oxidizing properties	No data available
Solubility	Insoluble in water

## 9.2. Other information

VOC (Volatile organic compounds)	100 %
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## SECTION 10: Stability and reactivity

## 10.1. Reactivity

	Stable under normal conditions.
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## 10.2. Chemical stability

	Stable under normal conditions.
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## 10.3. Possibility of hazardous reactions

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

## 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

## 10.5. Incompatible materials

No data available.

## 10.6. Hazardous decomposition products

Carbon oxides. Hydrocarbons.

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met. However, this product does contain substance(s) that are classified as hazardous. For more information, see Section 3.
Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitization	May cause allergic reactions in susceptible people.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	Listed by the International Agency for Research on Cancer (IARC) as a group 3 substance: evidence does not support the substance as a human carcinogen. Not listed in the National Toxicology Program (NTP) 14th Report on Carcinogens. Not listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. Not listed in the OSHA standard 1910.1003 Carcinogens.
Reproductive toxicity	No teratogenic effects reported.
STOT-single exposure	May cause dizziness and headache.
STOT-repeated exposure	Component(s) may cause damage to human organs based on animal data.
Aspiration hazard	Potential for aspiration if swallowed.
Repeated or prolonged exposure	Avoid prolonged or repeated exposure.

## 11.1.4. Toxicological information

No data available

## SECTION 12: Ecological information

## 12.1. Toxicity

No data available

## 12.2. Persistence and degradability

No data is available on this product.

## 12.3. Bioaccumulative potential

No data is available on this product.

## Partition coefficient

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## Partition coefficient

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 No data available

## 12.4. Mobility in soil

	No data is available on this product.
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## 12.5. Results of PBT and vPvB assessment

	No data is available on this product.
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## 12.6. Other adverse effects

	Caution - substance not yet fully tested.
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## SECTION 13: Disposal considerations

## Disposal methods

	Do not burn or incinerate. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all local and national regulations.
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## Disposal of packaging

	Contents under pressure: Do not puncture or incinerate! If empty: Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions.
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## Further information

	Refer to product label for FIFRA-required Storage and Disposal directions.
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## SECTION 14: Transport information

## Hazard pictograms



## 14.1. UN number

	UN1950
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## 14.2. UN proper shipping name

	AEROSOLS
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## 14.3. Transport hazard class(es)

DOT	2
Subsidiary risk	see SP63
IMDG	2
Subsidiary risk	see SP63
IATA	2
Subsidiary risk	see SP63

## 14.4. Packing group

## Packing group

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## 14.5. Environmental hazards

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## 14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

## DOT

Hazard ID	-
Tunnel Category	(D)

## IMDG

EmS Code	F-D S-U
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## IATA

Packing Instruction (Cargo)	203
Maximum quantity	150 kg
Packing Instruction (Passenger)	203
Maximum quantity	75 kg

## SECTION 15: Regulatory information

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

Regulations	Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.
Chemical Inventories/Right-to-Know Lists:	Toxic Substances Control Act (TSCA): All ingredients listed or exempt. Massachusetts Right-to-Know Hazardous Substance List: Propane, Isobutane, Pyrethrins, Piperonyl butoxide. New Jersey Worker and Community Right to Know Act: Propane, Isobutane, Pyrethrins, Piperonyl butoxide. Pennsylvania Right to Know Law: Propane; Propane, 2,2'-oxybis, Pyrethrins and pyrethroids. Rhode Island Right-to-Know General Law: Liquefied petroleum gas, Pyrethrum.  California Prop 65: This material contains no reportable components.

## Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Acetone (2-Propanone)	Y	N	N	N	N	N	N	N	N
Pyrethrins	N	N	N	N	N	N	Y	N	N

## Further information

FIFRA	This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.
FIFRA Signal Word	CAUTION.
FIFRA Warning	Keep out of reach of children. Hazards to humans and domestic animals. Avoid contact with skin or clothing. Harmful if swallowed. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

## SECTION 16: Other information

## Other information



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## Other information

<b>Revision</b>	This document differs from the previous version in the following areas: 9 - 9.1. Information on basic physical and chemical properties (State).
<b>Acronyms</b>	ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR). CAS No.: Chemical Abstracts Service. GHS: Globally Harmonized System. HCS 2012: Hazard Communication Standard (2012 revision). IATA: International Air Transport Association. ICAO: International Civil Aviation Organization. IMDG: International Maritime Dangerous Goods. LD: Lethal dose. OEL: Occupational exposure limit. OSHA: U.S. Occupational Safety and Health Administration. PEL: Permissible Exposure Limit. REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals. SVHC: Substance of very high concern. US DOT: United States Department of Transportation. VOC: Volatile Organic Compound. WEL: Workplace Exposure Limit.
<b>Text of Hazard Statements in Section 3</b>	Flam. Gas 1: H220 - Extremely flammable gas. EUH066 - Repeated exposure may cause skin dryness or cracking. Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Eye Irrit. 2: H319 - Causes serious eye irritation. STOT SE 3: H336 - May cause drowsiness or dizziness. Acute Tox. 3: H311 - Toxic in contact with skin. Aquatic Acute 1: H400 - Very toxic to aquatic life. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects. Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled
<b>Maximum content of VOC</b>	100 %.

## Further information

	<p>DISCLAIMER: The information and recommendations set forth herein ("Information") are presented in good faith and believed to be correct as of the date issued. No representation is made regarding the completeness or accuracy of the Information. Further, because of the many factors that affect the use of this product, the Information is supplied upon the condition that the person(s) receiving it will make their own determination regarding its suitability for their own unique purpose(s), prior to use.</p> <p>Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, USAGE OF TRADE, OR RESULTS TO BE OBTAINED BY USE OF THIS PRODUCT are made with respect to this product or use of this product. The product covered is furnished "as is" and only subject to the warranties herein provided, no liability is assumed resulting from the use of this product.</p>
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