



SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

Page 1/10

SureKill® SK100

Revision 3
Revision date 2020-03-19

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

1.1. Product identifier

Product name	SureKill® SK100
Product code	1795010, 1796500
Registration No.	47000-179.

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

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

1.3. Details of the supplier of the safety data sheet

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

	Manufactured By:. 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

2.1.2. Classification - GHS	Asp. Tox. 1: H304; Skin Sens. 1: H317; STOT SE 3: H336; STOT RE 2: H373; Aquatic Chronic 2: H411;
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2.2. Label elements

SureKill® SK100

Revision 3
Revision date 2020-03-19

2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways. Skin Sens. 1: H317 - May cause an allergic skin reaction. STOT SE 3: H336 - May cause drowsiness or dizziness. STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure . Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Precautionary Statement: Prevention	P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/ . P302+P352 - IF ON SKIN: Wash with plenty of water/ . P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 - Call a POISON CENTER/doctor/ media appropriate to the surrounding conditions /if you feel unwell. P331 - Do NOT induce vomiting. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
Precautionary Statement: Storage	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to an approved waste disposal facility in accordance with local and national regulations., Follow label instructions

2.3. Other hazards

Other hazards	Combustible liquid. Contains petroleum distillates. Vomiting may cause aspiration pneumonia. Read the entire label and follow all use directions, restrictions, and precautions.
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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
Distillates (petroleum), hydrotreated light.		64742-47-8	265-149-8		80 - 90%	Flam. Liq. 4: H227; Asp. Tox. 1: H304; STOT SE 3: H336; STOT RE 2: H373;
n-Octyl bicycloheptene dicarboximide.		113-48-4	204-029-1		3.0%	Skin Sens. 1: H317; Eye Irrit. 2B: H320; Acute Tox. 4: H332; Aquatic Acute 2: H401; Aquatic Chronic 2: H411;
Piperonyl butoxide		51-03-6	200-076-7		2.0%	Aquatic Acute 1: H400; Aquatic Chronic 1: H410;
Pyrethrins (Pyrethrum)		8003-34-7	232-319-8		1.0%	Acute Tox. 4: H302+H312+H332; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;

Description

SureKill® SK100

Revision 3
Revision date 2020-03-19

Description	
	Concentrations listed may not represent exact product specifications.

Further information	
	Full text of Hazard Statements listed in this Section is provided in Section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures**

Inhalation	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.
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist.
Skin contact	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. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

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

Inhalation	Harmful if inhaled. May cause dizziness and headache. May cause irritation to respiratory system.
Eye contact	May cause irritation to eyes.
Skin contact	Harmful if absorbed through the skin. May cause irritation to skin. May cause dermatitis.
Ingestion	Ingestion may cause nausea and vomiting. Vomiting may cause aspiration pneumonia.

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 and/or package insert for additional information. Follow label instructions.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

	Insoluble in water. Do NOT use water jet. 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. Insoluble in water. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not allow undiluted product to be released to ground water, water course or sewage system.
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5.3. Advice for firefighters

	Do not breathe vapor or spray mist. Wear self-contained breathing apparatus and chemical-protective clothing.
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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

	In the case of cleanup following a spill, wear protective clothing and appropriate equipment to prevent exposure of skin and eyes and to prevent ingestion or inhalation. Ensure adequate ventilation of the working area. Do not breathe gas/fumes/vapor/spray. Avoid prolonged or repeated exposure.
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SureKill® SK100

Revision 3
Revision date 2020-03-19

6.2. Environmental precautions

Prevent further spillage if safe. Clean area thoroughly with detergent. Do not flush into surface water. Do not let product contaminate subsoil.

6.3. Methods and material for containment and cleaning up

Absorb spillage to prevent material damage. Clean area thoroughly with detergent. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not empty into drains; dispose of this material and its container in a safe way. Dispose of in compliance with all label instructions.

6.4. Reference to other sections

See Section(s) 2, 8, and 13 for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes. 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.

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.

7.3. Specific end use(s)

See Section(s) 1.2 for further information.

Further information

Refer to product label and/or package insert for additional information. Follow label instructions.



SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limit Values

Pyrethrins (Pyrethrum)	ACGIH TLV TWA: 5 mg/m ³	ACGIH TLV STEL: -
	Notations: A4	OSHA PEL 8hr TWA ppm: -
	OSHA PEL 8hr TWA mg m3: 5	Skin Designation: -
	NIOSH REL 10hr TWA ppm:	NIOSH REL 10hr TWA mg m3:
	NIOSH REL 15 min ST ppm:	NIOSH REL 15 min ST mg m3:

8.2. Exposure controls

<p>Appropriate engineering controls</p> <p>Individual protection measures</p> <p>Eye / face protection</p>	 
	Ensure adequate ventilation of the working area.
	Use as appropriate: Protective equipment.
	Use as appropriate: Eye protection.

SureKill® SK100

Revision 3
Revision date 2020-03-19

8.2. Exposure controls

Skin protection - Hand protection	Wear: Chemical resistant gloves. Wash the outside of gloves before removing them. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
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	Liquid
Color	Clear/Yellow
Odor	Mild/Sweet
Odor threshold	No data available
pH	No data available
Melting point	-58 °C
Freezing Point	No data available
Boiling point	175 - 270 °C
Flash point	95.5 °C
Evaporation rate	No data available
Flammability limits	Not applicable.
Upper Explosive Limit	5.5 %
Lower Explosive Limit	0.6 %
Vapor pressure	0.34 mmHg
Vapor density	4.5
Relative density	0.79 - 0.82
Partition coefficient	No data available
Autoignition temperature	220 °C
Viscosity	1.89 cSt
Oxidizing properties	No data available
Solubility	Insoluble in water

9.2. Other information

VOC (Volatile organic compounds)	89.87 %
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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
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SureKill® SK100

Revision 3
Revision date 2020-03-19

10.3. Possibility of hazardous reactions

pressure are not expected.

10.4. Conditions to avoid

Avoid sparks, flames, heat and sources of ignition.

10.5. Incompatible materials

Combustible materials. Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon oxides.

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. May cause dermatitis.
Serious eye damage/irritation	May cause irritation to eyes.
Respiratory or skin sensitization	May cause allergic reactions in susceptible people. May cause sensitization by skin contact.
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, [Petroleum distillates, CAS No. 64742-47-8], [Permethrin, CAS No. 52654-53-1]. No components at >0.01% are listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. No components at >0.01% are listed in the National Toxicology Program (NTP) Report on Carcinogens. Not listed in the OSHA standard 1910.1003 Carcinogens.
Reproductive toxicity	No teratogenic effects reported.
STOT-single exposure	May cause dizziness and headache. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT-repeated exposure	Components(s) may cause damage to human organs based on animal data.
Aspiration hazard	Vomiting may cause aspiration pneumonia.
Repeated or prolonged exposure	Avoid prolonged or repeated exposure. Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.

11.1.2. Mixtures

See Section(s) 3 for further information.

11.1.3. Hazard Information

See Section(s) 2 and 3 for further information.

11.1.4. Toxicological information

No data available

11.1.5. Hazard Class

See Section(s) 2 and 14 for further information.

11.1.6. Classification Criteria

Based on the Globally Harmonized System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.

SureKill® SK100

Revision 3
Revision date 2020-03-19**11.1.7. Information on likely routes of exposure**

Eye contact. Skin contact. Inhalation. Ingestion.

11.1.8. Symptoms related to the physical, chemical and toxicological characteristics

See Section(s) 4.2 for further information.

11.1.9. Delayed and immediate effects as well as chronic effects from short and long-term exposure

See Section(s) 4.2 for further information.

11.1.10. Interactive effects

No data available.

11.1.11. Absence of specific data

<1% of this mixture consists of ingredients of unknown acute toxicity.

11.1.12. Mixture versus substance information

See Section(s) 3 for further information.

11.1.13. Other 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

SureKill® SK100 No data available

12.4. Mobility in soil

No data is available on this product.

12.5. Results of PBT and vPvB assessment

No data is available on this product.

12.6. Other adverse effects

Toxic to aquatic organisms, fish, aquatic invertebrates.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Do not contaminate water, food, or feed by storage or disposal. Dispose of in compliance with all local and national regulations. Follow label instructions.

Disposal methods

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.

Disposal of packaging

SureKill® SK100

Revision 3
Revision date 2020-03-19

Disposal of packaging

Nonrefillable container. Do not reuse or refill this container.
 If empty: Do not reuse this container. Place in trash or offer for recycling, if available.
 If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

Further information

Refer to product label and/or package insert for additional information. Follow label instructions.

SECTION 14: Transport information

14.1. UN number

The product is not classified as dangerous for carriage.

14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

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: Petroleum distillates, Piperonyl butoxide, Pyrethrins.
 New Jersey Worker and Community Right to Know Act: Petroleum distillates, Piperonyl butoxide, Pyrethrins.
 Pennsylvania Right to Know Law: Petroleum distillates, Pyrethrins and pyrethroids.
 Rhode Island Right-to-Know General Law: Pyrethrum.
 California Prop 65: This material contains no reportable components.

Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Pyrethrins	N	N	N	N	N	N	Y	N	N

Further information

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

SureKill® SK100

Revision 3
Revision date 2020-03-19

Further information

FIFRA Signal Word FIFRA Warning	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.
	CAUTION.
	Keep out of reach of children. Hazards to humans and domestic animals. Avoid contact with eyes, skin, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas: 1 - Manufactured By: 1 - Registration No. 2 - Precautionary Statement: Disposal. 3 - Description. 4 - Ingestion. 4 - Further information. 5 - 5.1. Extinguishing media. 5 - 5.2. Special hazards arising from the substance or mixture. 5 - 5.3. Advice for firefighters. 7 - Further information. 11 - Repeated or prolonged exposure. 11 - Carcinogenicity. 12 - 12.6. Other adverse effects. 13 - 13.1. Waste treatment methods. 13 - Further information. 14 - DOT. 14 - IMDG. 14 - IATA.
Acronyms	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.
Text of Hazard Statements in Section 3	Flam. Liq. 4: H227 - Combustible liquid. Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways. STOT SE 3: H336 - May cause drowsiness or dizziness. STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure .

SureKill® SK100

Revision 3
Revision date 2020-03-19

Other information

	<p>Skin Sens. 1: H317 - May cause an allergic skin reaction. Eye Irrit. 2B: H320 - Causes eye irritation. Acute Tox. 4: H332 - Harmful if inhaled. Aquatic Acute 2: H401 - Toxic to aquatic life. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects. 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</p>
Maximum content of VOC	89.87 %.

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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