

# **SAFETY DATA SHEET**

Issue Date: 22-Jun-2017 Revision Date: 22-Jan-2020 Version: 2

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier** 

Product Name: SureKill® Advanced Insecticide Products Total Release Aerosol

**EPA Registration Number:** 1021-1635-47000

Other means of identification

Recommended use of the chemical and restrictions on use:

**Recommended Use:** A Liquefied Aerosol Insecticide Spray.

Details of the supplier of the safety data sheet

**Manufactured For:** 

Chem-Tech, Ltd. 1006 Business Hwy 5 Pleasantville. IA 50225 U.S.A.

Chem-Tech Ltd. is a wholly-owned subsidiary of Neogen Corporation

**24 Hour TRANSPORTATION Emergency:** CHEMTREC®: (800) 424-9300 **International:** (703) 527-3887

**24 Hour MEDICAL Emergency:** SafetyCall®: (888) 740-8712, or (952) 852-9509

Comments: MGK® Hours of operation are 8:00 a.m. to 4:30 p.m. CST, 14:00 to 22:30 GMT.

For MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call 24 hours a day to

(888) 740-8712, or (952) 852-9509.

# 2. HAZARDS IDENTIFICATION

**Environment:** OSHA has not adopted the environmental - portion of the GHS regulations, however, this SDS may include information on environmental effects.

### Classification:

# **OSHA Regulatory Status:**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity - Inhalation (Dusts/Mists)	Category 4	
Flammable aerosol	Category 2	
Gases under pressure	Liquefied gas	

# Label elements

# **Emergency Overview**

# WARNING

#### Hazard statements

H332 - Harmful if inhaled



H280 - Contains gas under pressure; may explode if heated

H223 - Flammable aerosol

• H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects



Appearance: Milky white (Aerosol Physical state: Aerosol - Odor Solvent Non-volatiles) Compressed liquefied gas.

# **Precautionary Statements - Prevention:**

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P211 - Do not spray on an open flame or other ignition source

P251 - Pressurized container: Do not pierce or burn, even after use

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P271 - Use only outdoors or in a well-ventilated area

# **Precautionary Statements - Response:**

P321 - Specific treatment (see Section 4/ First Aid).

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

### **Precautionary Statements - Storage:**

P410 + P403 - Protect from sunlight. Store in a well-ventilated place

P411 - Do not expose to temperatures exceeding 50 °C/122 °F

# **Precautionary Statements - Disposal:**

P501 - Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC):

Not applicable

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Pyrethrins	8003-34-7	0.050
Piperonyl Butoxide (PBO)	51-03-6	0.10
MGK®-264 Insecticide Synergist (n-Octyl	113-48-4	0.16
bicycloheptene dicarboximide)		
Esfenvalerate	66230-04-4	0.10
Petroleum distillates, hydrotreated light	64742-47-8	< 10 *
Propane	74-98-6	15
Isobutane	75-28-5	20

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

Comments: Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.



# 4. FIRST AID MEASURES

Aspiration pneumonia hazard: • No information available

Description of first aid measures:

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove Eye contact:

contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call

a poison control center or doctor for treatment advice.

**Skin Contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for

15-20 minutes. Call a poison control centeror doctor for treatment advice.

Ingestion: If swallowed, IMMEDIATELY call a poison control center or doctor for treatment

> advice. DO NOT give any liquid to the person. Do not induce vomiting unless told to do so by a poison contol center or a doctor. Never give anything by mouth to an

unconscious person.

Inhalation: Remove affected 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.

**Self-protection of the First** 

Responder:

Remove all sources of ignition. Use personal protective equipment as required.

For skin effects, a highly efficient therapeutic agent for Pyrethrin/ Pyrethroid Note to physicians:

exposure is topical application of tocopherol acetate (Vitamin E).

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

# Unsuitable extinguishing media:

Caution: Use of water spray when fighting fire may be inefficient.

Hazardous combustion products: Hydrogen cyanide, Carbon monoxide, Carbon dioxide (CO2).

### Specific hazards arising from the chemical

No information available.

**Explosion data** 

Chronic Hazard Star Legend

Sensitivity to Mechanical Impact: None. Sensitivity to Static Discharge: None.

### Protective equipment and precautions for firefighters:

In the event of fire and/or explosion do not breathe fumes.

NFPA **Health hazards** 2 Flammability 3 **Instability** 0 Physical and

**Chemical Properties** 

HMIS Health hazards 1\* Flammability 4 Physical hazards 0 Personal protection

\* = Chronic Health Hazard



# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Remove all sources of ignition. Evacuate personnel to safe areas. Ensure

adequate ventilation, especially in confined areas. Keep people away from and

upwind of spill/leak. Use personal protective equipment as required.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

**Methods for containment:** Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic

sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up: Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder,

universal binder, sawdust). Pick up and transfer to properly labeled containers.

Soak up with inert absorbent material.

# 7. HANDLING AND STORAGE

# Precautions for safe handling

Advice on safe handling: Ensure adequate ventilation, especially in confined areas. Keep away from heat,

sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Use with local exhaust ventilation. Use

personal protective equipment as required. Do not breathe

dust/fume/gas/mist/vapors/spray. Avoid contact with eyes. Avoid breathing vapors or mists. Contents under pressure. Do not puncture or incinerate cans. Do not

stick pin or any other sharp object into opening on top of can. For more

information, see product label.

# Conditions for safe storage, including any incompatibilities

**Storage Conditions:** Keep tightly closed in a dry and cool place. Keep in properly labeled containers.

Keep containers tightly closed in a cool, well-ventilated place. For more

information, see product label.

# 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

# Control parameters

**Exposure Guidelines:** This product, as supplied, does not contain any hazardous materials with

occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Supplier OEL
Pyrethrins	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	IDLH: 5000 mg/m <sup>3</sup>	-
8003-34-7		(vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	
Petroleum distillates,	-	-	-	TWA: 100 ppm
hydrotreated light				TWA: 525 mg/m <sup>3</sup>
64742-47-8				
Propane	: See Appendix F: Minimal	TWA: 1000 ppm	IDLH: 2100 ppm	-
74-98-6	Oxygen Content, explosion	TWA: 1800 mg/m <sup>3</sup>	TWA: 1000 ppm	
	hazard	(vacated) TWA: 1000 ppm	TWA: 1800 mg/m <sup>3</sup>	
		(vacated) TWA: 1800 mg/m <sup>3</sup>		
Isobutane	STEL: 1000 ppm explosion	-	TWA: 800 ppm	-



75-28-5 hazard TWA: 1900 mg/m<sup>3</sup>

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information: Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Appropriate engineering controls

**Engineering Controls:** Safety showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

**Eye/face protection:** Protective eyewear is recommended, but is not required.

**Skin and body protection:** Protective gloves are recommended, but are not required.

Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA

approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local

regulations.

**General Hygiene** When using do not eat, drink or smoke. Regular cleaning of equipment, work area

**Considerations:** and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

**Physical state:** Aerosol - Compressed liquefied gas. **Appearance:** Milky white (Aerosol Non-volatiles)

Odor Solvent

Odor threshold: No information available Color (Gardner Scale): No information available

Property: <u>Values:</u> <u>Comment: • Method</u>

**pH:** 7.2 @ 5% in H<sub>2</sub>O. Test was performed on aerosol

Non-Volatile's...

Melting point / freezing point:

Boiling point / boiling range:

No information available

No information available

Flash point: > 93.3 °C / > 200.0 °F Tag Closed Cup; Test was performed on

aerosol Non-Volatile's;

No information available **Evaporation rate:** Flammability (solid, gas): No information available Upper flammability limit (UEL): No information available Lower flammability limit (LEL): No information available Vapor pressure: No information available Vapor density: No information available **Specific Gravity:** No information available Water solubility: No information available Partition coefficient; n-Octanol/ No information available

Water:

Autoignition temperature: No information available



**Decomposition temperature:** No information available **Kinematic viscosity:** No information available

**Dynamic viscosity:** 930 cPs @ 21.9°C. Test was performed on aerosol Non-Volatile's.

Refractive Index: No information available

Other Information:

**Density:** 0.970 g/cm<sup>3</sup> @ 22.3 °C (Aerosol Non-volatiles)

**VOC Content (%):** 35.2

Miscibility/ Solubility:

Water: Partially miscible
Alcohol Partially miscible
Aromatic solvents: Partially miscible
Petroleum distillates: Partially miscible

# 10. STABILITY AND REACTIVITY

### Reactivity

No data available

# **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous polymerization:** Hazardous polymerization does not occur.

# **Conditions to avoid**

Heat, flames and sparks.

#### Incompatible materials:

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

### **Hazardous Decomposition Products**

Hydrogen cyanide, Carbon monoxide, Carbon dioxide (CO2).

# 11. TOXICOLOGICAL INFORMATION

# Numerical measures of toxicity - Product Information

 Oral LD50
 >5,000 mg/kg (rat)

 Dermal LD50
 >2,000 mg/kg (rabbit)

 Inhalation LC50
 >3.03 mg/L, (rat; 4 hours)

**Eye contact:** Irritation clearing in 24 hours. (rabbit). **Skin Contact:** Slight irritation at 72 hours. (rabbit).

Skin Irritation Index: 0.84

**Sensitization:** Negative. (guinea pig).

**Comment:** Toxicology data was bridged from a similar formula.

**Piperonyl Butoxide:** Marginally higher incidences of benign liver tumors in mice were observed following lifetime high dose exposures to PBO. The significance of these



observations is questionable and under review. The doses at which tumors were observed for PBO greatly exceeded potential human exposure from labeled uses. Doses at which these effects were observed greatly exceeded anticipated human dietary intake. At anticipated dietary exposure levels, it is highly unlikely that this

product will result in carcinogenic effects.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed

by OSHA, IARC or NTP.

Central nervous system.

Reproductive toxicity:

Developmental Toxicity
Teratogenicity:

STOT - single exposure:
Chronic toxicity:

No information available.
No information available.
No information available.
No information available.
Avoid repeated exposure.

12. ECOLOGICAL INFORMATION

### **Ecotoxicity:**

# Persistence and degradability

**Target Organ Effects:** 

No information available.

#### **Bioaccumulation**

No information available.

Chemical Name	Partition coefficient; n-Octanol/ Water:	
Propane 74-98-6	2.3	
Isobutane 75-28-5	2.88	

Other adverse effects: No information available

# **Environmental hazards (EPA):**

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Disposal of wastes:**Disposal should be in accordance with applicable regional, national and local laws

and regulations. For more information, see product label.

**Contaminated packaging:** For more information, see product label.

# 14. TRANSPORT INFORMATION

# **DOT (Department of Transportation)**

UN/ID Number: UN1950

**Proper Shipping Name:** Aerosols, flammable



Hazard Class: 2.1

Air (IATA/ ICAO)

UN/ID Number: UN1950

Proper Shipping Name: Aerosols, flammable

Hazard Class: 2.1

Vessel (IMO/ IMDG)

UN/ID Number: UN1950

**Proper Shipping Name:** Aerosols, flammable

Hazard Class: 2.1

### 15. REGULATORY INFORMATION

### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard

#### Categories

Acute health hazardYesChronic Health HazardYesFire hazardNoSudden release of pressure hazardYesReactive HazardNo

# **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Pyrethrins	1 lb	-	-	-
8003-34-7				

# **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ):
Pyrethrins	1 lb	-	RQ 1 lb final RQ
8003-34-7			RQ 0.454 kg final RQ

### **US State Regulations:**

# **California Proposition 65:**

This product does not contain any Proposition 65 chemicals



# U.S. EPA Label Information:

**EPA Registration Number:** 1021-1635

# <u>Difference between SDS and EPA (FIFRA) Pesticide label:</u>

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 pesticide label also includes other important information, including directions for use. The hazard information required on the pesticide label is reproduced below:

Signal word: CAUTION

# **Precautionary Statements:**

- · Harmful if inhaled.
- Harmful if absorbed through the skin.
- · Causes moderate eve irritation.
- · Breathing spray mist may be harmful.

# International:

TSCA Complies

DSL/NDSLDoes not complyEINECS/ELINCSDoes not complyENCSDoes not comply

**IECSC** Complies

KECLDoes not complyPICCSDoes not complyAICSComplies

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION.

Issue Date: Revision Date: Revision Note:

22-Jun-2017 22-Jan-2020 - SDS sections updated

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Disclaimer:

Revision Date: 22-Jan-2020

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This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.

**End of Safety Data Sheet.**