

# SAFEGUARD 618 BUG GO BED BUG & FLEA KILLER

## SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**

Chemical Name	Mixture
CAS No.	Mixture
Trade Name	SAFEGUARD 618 BUG GO BED BUG & FLEA KILLER
Product Code	10-500888
EPA Identification Number(s)	EPA Reg. No. 8848-73 EPA Est. No. 34631-PA-001 EPA EST. No. 5893-MA-1

**Relevant identified uses of the substance or mixture and uses advised against**

Identified Use(s)	Indoor pesticidal spray
Uses Advised Against	It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
Company Identification	Spray Products Corporation P.O. Box 737 Norristown, PA 19404
Telephone	(610) 277-1010
Fax	(610) 277-4390
E-Mail (competent person)	<a href="mailto:sds@sprayproducts.com">sds@sprayproducts.com</a>

**Emergency telephone number**

Emergency Phone No.	<b>Transportation Emergency:</b> CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)
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### SECTION 2: HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

OSHA HCS (29 CFR 1910.1200)	Flam. Aerosol 2; Liquefied gas; Skin Irrit. 2; STOT SE 3; Asp. Tox. 1
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**Label elements**

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 in section 15 of this SDS.

Hazard Symbol



Signal word(s)

**DANGER**

Hazard Statement(s)

Flammable aerosol.  
Contains gas under pressure; may explode if heated.  
Causes skin irritation.  
May cause drowsiness or dizziness.  
May be fatal if swallowed and enters airways

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## Precautionary Statement(s)

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

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands and exposed skin after use.

## Other hazards

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt. *	CAS No.	Hazard classification
Distillates (petroleum), hydrotreated light	5 - 10	64742-47-8	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
White Mineral Oil	0 - 10	8042-47-5	Asp. Tox. 1, H304
Propane	5 - 10	74-98-6	Flam. Gas 1; H220 Liquefied gas; H280
n-Butane	5 - 10	106-97-8	Flam. Gas 1; H220 Liquefied gas; H280
Permethrin	0.5	52645-53-1	Acute Tox. 4; H332, H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Sodium benzoate	0.1	532-32-1	Eye Irrit. 2a; H319
Water	> 70	7732-18-5	Not classified as dangerous for supply/use.

**Additional Information** - None

\* The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.

## SECTION 4: FIRST AID MEASURES



### Description of first aid measures

Inhalation

Not normally required. Move person to fresh air. If breathing is labored, administer oxygen. If symptoms develop, obtain medical attention.

Skin Contact

Wash affected skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion

Do not give anything by mouth to an unconscious person. Seek medical treatment. Do NOT induce vomiting.

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

Aspiration into the lungs may cause chemical pneumonitis, which can be fatal.

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Indication of any immediate medical attention and special treatment needed

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

- Suitable Extinguishing Media
- Unsuitable Extinguishing Media

Extinguish with carbon dioxide, dry chemical, foam or water spray. Do not use water jet.

### Special hazards arising from the substance or mixture

None anticipated.

### Advice for fire-fighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Eliminate all ignition sources if safe to do so. Wear protective gloves/eye protection/face protection. Avoid breathing spray. Avoid contact with skin.

### Environmental precautions

Prevent liquid entering sewers, basements and work pits.

### Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.

### Reference to other sections

None

### Additional Information

None

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid breathing spray. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.

### Conditions for safe storage, including any incompatibilities

-Storage temperature

Keep in a cool, well ventilated place. Protect from sunlight. Store at temperatures not exceeding 50 °C / 122 °F.

-Incompatible materials

This product should be stored away from sources of strong heat or oxidizing chemicals. Strong Acids and Alkalis.

### Specific end use(s)

Indoor pesticidal spray

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
C <sub>9</sub> -C <sub>15</sub> Alkanes & Cycloalkanes	Mixture	-----	1200 mg/m <sup>3</sup>	-----	-----	-----
Propane	74-98-6	1000 ppm	Aspyx.#	-----	-----	#
n-Butane	106-97-8	-----	250 ppm	-----	-----	-----

\*Assure minimum oxygen content of work atmosphere.

### Recommended monitoring method

NIOSH 1500 (hydrocarbons, B.P. 36 - 126 °C), NIOSH 1550 (Naphthas)

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## Exposure controls

### Appropriate engineering controls

Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded.

### Personal protection equipment

Eye/face protection

Not normally required. Do not get in eyes.



Skin protection (Hand protection/ Other)

Wear suitable gloves if prolonged skin contact is likely. Check with protective equipment manufacturer's data.



Respiratory protection

Normally no personal respiratory protection is necessary.



Thermal hazards

Not normally required. Use gloves with insulation for thermal protection, when needed.

### Environmental Exposure Controls

Prevent release to the environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	Aerosol spray
Color.	Not available
Odor	Not available
Odor Threshold (ppm)	Not available
pH (Value)	Not available
Melting Point (°C) / Freezing Point (°C)	Not available
Boiling point/boiling range (°C):	Not available
Flash Point (°C)	-104 (Propane)
Evaporation Rate	Not available
Flammability (solid, gas)	Flammable aerosol
Explosive Limit Ranges	2.1% - 9.5% v/v (Propane)
Vapor pressure (Pascal)	ca. $95 \times 10^4$ (Propane)
Vapor Density (Air=1)	ca. 1.56 @ 0 °C (Propane)
Density (g/ml)	2.1% - 9.5% v/v (Propane)
Solubility (Water)	Not available
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	Not available
Decomposition Temperature (°C)	Not available
Kinematic Viscosity (cSt)	N< 20.5 @ 40 0°C
Explosive properties	Not available
Oxidizing properties	Not available
<b>Other information</b>	Not available

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable.
<b>Possibility of hazardous reactions</b>	None anticipated.
<b>Conditions to avoid</b>	Avoid contact with heat and ignition sources.
<b>Incompatible materials</b>	Strong oxidizing agents. Strong Acids and Alkalis.
<b>Hazardous decomposition product(s)</b>	Carbon monoxide, Carbon dioxide, Acrid smoke

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## SECTION 11: TOXICOLOGICAL INFORMATION

**Exposure routes:** Inhalation, Skin Contact, Eye Contact

**Substances in preparations / mixtures**

Distillates (petroleum), hydrotreated light (CAS No. 64742-47-8) - By analogy with similar materials:

**Acute toxicity** (calculated / estimated) Oral: LD50 >5000 mg/kg-bw  
Dermal: LD50 >2000 mg/kg-bw  
Inhalation: LC0 ≥5.28 mg/l (Vapor), 4-hr. rat - May cause drowsiness or dizziness.

**Irritation/Corrosivity** Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

**Sensitization** It is not a skin sensitizer.

**Repeated dose toxicity** Oral: NOEAL 750 mg/kg  
Dermal: NOEAL 0.5 ml/kg bw  
Inhalation: NOAEL ≥1000 mg/m3

**Carcinogenicity** It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

**Mutagenicity** Not to be expected  
**Reproductive toxicity** Not to be expected

Propane (CAS# 74-98-6):

**Acute toxicity** Inhalation: LC50 = 1237 mg/L (2-hr, mouse, gas)

**Irritation/Corrosivity** No evidence of irritant effects from normal handling and use.

**Sensitisation** It is not a skin sensitizer.

**Repeated dose toxicity** NOAEC: ≥19678 mg/m3 (28-day, rat, Systemic effects)  
LOAEC: 21641 mg/m3 (28-day, rat, effects: Body weight)

**Carcinogenicity** No data. It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

**Mutagenicity** There is no evidence of mutagenic potential.  
**Reproductive toxicity** None anticipated

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity**

Propane (CAS# 74-98-6):

Short term (estimate) LC50 (96 hour): 27.98 mg/L (fish)  
LC50 (48 hour): 14.22 mg/L (crustacea)  
EC50 (96 hour): 7.71 mg/L (algae)

Long Term Toxicity No data.

Distillates (petroleum), hydrotreated light (CAS No. 64742-47-8) - By analogy with similar materials:

Short term LC50 (96 hour): 2.5 mg/L (fish)  
EC50 (48 hour): 1.4 mg/L (crustacea)  
EC50 (72 hour): 1.3 mg/L (algae)

Long Term NOEC (28 days): 0.098 mg/L (fish)  
LOEC (21 days): 1.2 mg/L (crustacea)  
LOEL (72 hour): 1 mg/L (algae)

**Persistence and degradability** Not available.  
**Bioaccumulative potential** Not available.  
**Mobility in soil** Not available.

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**Results of PBT and vPvB assessment**

Not classified as PBT or vPvB.

**Other adverse effects**

None known.

**Other information**

Contains: Permethrin (CAS No. 52645-53-1, 0.5%); Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste treatment methods**

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

## SECTION 14: TRANSPORT INFORMATION

	<u>U.S. DOT</u>	<u>Sea transport (IMDG)</u>	<u>Air transport (ICAO/IATA)</u>
<b>UN number</b>	1950	1950	1950
<b>Proper Shipping Name</b>	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable
<b>Transport hazard class(es)</b>	2.1	2.1	2.1
<b>Packing group</b>	Not applicable	Not applicable	Not applicable
<b>Environmental hazards</b>	None assigned	None assigned	None assigned
<b>Special precautions for user</b>	None assigned	None assigned	None assigned

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable

## SECTION 15: REGULATORY INFORMATION

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

**TSCA (Toxic Substance Control Act)** - Inventory Status: All components listed or exempt.

**EPA FIFRA Information for SDS Section 15 (Regulatory 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 sheets (SDS), and for workplace labels of non pesticide chemicals.

The hazard information required on the pesticide label is reproduced below:

### PRECAUTIONARY STATEMENTS Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if absorbed through skin. Avoid contact with skin eyes or clothing.

### Personal Protective Equipment (PPE)

Wear long sleeved shirt long pants socks shoes and chemical resistant gloves (such as barrier laminate nitrile or neoprene rubber or Viton® selection category E).

### User Safety Requirements

Follow manufacturers instructions for cleaning/maintaining PPE. If no such instructions for washables exist use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this products concentrate. Do not reuse them.

### User Safety Recommendations

Users should wash hands before eating drinking chewing gum using tobacco or using the toilet. Immediately remove clothing/PPE if pesticide gets inside then thoroughly wash and put on clean clothing immediately. Remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible thoroughly wash and change into clean clothing.

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## Environmental Hazards

This pesticide is extremely toxic to aquatic organisms including fish and invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. This pesticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

## Physical or Chemical Hazards

Contents under pressure Do not use or store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F [(54°C)] may cause bursting.

## Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	----	----	----

## SARA 311/312 - Hazard Categories:

Fire     Sudden Release     Reactivity     Immediate (acute)     Chronic (delayed)

## SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	----	----

## SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	----	----	----

## California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
None	----	----

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

Date of preparation: August 29, 2016

## Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

### Hazard Statement(s)

- H220: Extremely flammable gas.
- H227: Combustible liquid.
- H280: Contains gas under pressure; may explode if heated.
- H302: Harmful if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H332: Harmful if inhaled.
- H336: May cause drowsiness or dizziness.
- H400: Very toxic to aquatic life.
- H401: Toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.
- H411: Toxic to aquatic life with long lasting effects.

Training advice: None.

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