



Section 1 – Product & Company Identification

Product Name: **Cloud 9 Bed Bug Killer**
 Product ID Number: 509
 Product Use: Pest Control
 EPA Reg. Number: 706-110-5747
 Manufacturer Info: Arrow Chemical Products, Inc.
 2067 Ste. Anne
 Detroit, MI 48216
 Telephone: 313-237-0277
 Numbers: 24 hr. Emergency Assistance: Infotrac 1-800-535-5053

Section 2 – Composition/Information on Ingredients

INGREDIENT	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Paraffinic, Naphthenic Solvent	64742-47-8	15-20%	Not Established	5000 mg/kg /2000 mg/kg
Propane	74-98-6	0-10	1000 ppm	658 mg/L 4 h (rat)
n-Butane	106-97-8	0-10	1000 ppm	658 mg/L 4 h (rat)

Section 3 – Hazards Identification

Emergency Overview: Aerosol. CONTENTS UNDER PRESSURE.

Potential Health Effects:

Routes or exposure: skin contact, ingestion.
 Eyes: Moderately irritating to eyes. Health injuries are not known or expected under normal use.
 Skin: Harmful if absorbed through skin. Health injuries are not known or expected under normal use.
 Inhalation: Intentional misuse by concentrating and inhaling the product can be harmful or fatal.
 Ingestion: Exposure by ingestion of an aerosol is unlikely. Components of the product may be absorbed into the body by ingestion.
 Target organs: Central nervous system.
 Chronic Effects: May cause central nervous system disorder (e.g. narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage.
 Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
 Signs and symptoms: Narcosis.

Section 4 – First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
 Skin: Immediately take off contaminated clothing. Flush skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
 Inhalation: If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.
 Ingestion: Call a physician or Poison Control Center immediately. Do not induce vomiting without advice from poison control center. Do not give milk, alcoholic beverages or castor oil. Never give anything by mouth to an unconscious person.
 Note to Physician: Symptoms may be delayed.

Section 5 – Fire Fighting Measures

Flammable properties: Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.
 Hazardous Combustion Products: Not Applicable.
 Suitable Extinguishing Media: Large Fires: Water spray, fog or regular foam.
 Fire Fighting Equipment & Instructions: In case of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up.

Section 6 – Accidental Release Measures

Methods for containment: Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk.
Methods for cleaning up: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.
 Small spills: wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Section 7 – Handling & Storage

Handling Procedures: Pressurized container. Do not pierce or burn, even after use. Do not smoke while using or until sprayed surface is thoroughly dry. Do not use if spray button is missing or defective. Do not re-use empty containers. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure.
 Storage Procedures: KEEP OUT OF REACH OF CHILDREN. Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Keep away from heat, sparks, and flame. Avoid exposure to long periods of sunlight. Store in cool place. Keep container dry. Keep away from food, drink and animal feedingstuff. Level 1 Aerosol (NFPA 30B)

Section 8 – Exposure Controls/Personal Protection

See section 2. All TWA's are for an 8-hour period and all STELs are for 15 minutes unless specifically noted as being for another time period.

Personal Protective Equipment:

Eyes/Face: Chemical goggles are recommended.
 Skin: Wear appropriate chemical resistant clothing. Chemical resistant gloves.
 Respiratory: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. If permissible levels are exceeded use NIOSH mechanical filter/organic vapor cartridge and an air supplied respirator.

Section 9 – Physical & Chemical Properties

Appearance: compressed liquefied gas	Boiling Point: 206.6° F.
Color: white	Density: 0.8355 g/cm3 estimated
Flammability (HOC): 13.2705 kj/g estimated	Flash Back: no
Flash Point: -156° F (-104.4 °C) Propellant	Pressure: 75-85 psig @70F
Solubility: Partially	Specific gravity: 0.8356 estimated.

Section 10: Stability & Reactivity

Chemical Stability: risk of ignition.

Conditions to Avoid: heat, flames and sparks

Incompatible materials: strong oxidizing agents

Hazardous Decomposition: may include oxides of nitrogen.



Section 11 – Toxicological Information

Acute effects:

Acute Oral LD50: 12479 mg/kg estimated, rat, dermal LC50: 32 mg/l/4h estimated, rat, inhalation

SEE SECTION 2

Sensitization: Not expected to be hazardous by OSHA criteria

Teratogenicity: Not expected to be hazardous by OSHA criteria.

CHEMICAL INGREDIENTS LISTED AS POTENTIAL OR KNOWN CARCINOGENS

INGREDIENT: OSHA NTP IARC

No ingredients listed in this section.

Section 12 – Ecological Information

Ecotoxicity: LC50 280 mg/L estimated, Fish, 96.00 hours,

Components of this product are hazardous to aquatic life.

Section 13 – Disposal Considerations

Waste codes: D001: Waste Flammable material with a flash point <140 F

Disposal Instructions: Contents under pressure. Dispose of this material and its container to hazardous or special waste collection point. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies.

Section 14 – Transportation Information

DOT Hazard Class: ORM-D

DOT Proper Shipping Name: Consumer commodity

Section 15 – Regulatory Information

TSCA Status

All ingredients are listed on the TSCA Chemical Inventory.

DSL/NDSL: All components listed unless noted elsewhere on this MSDS.

CERCLA/SARA

SARA Title III, Sections 311/312 – This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in the 40 CFR 370: Classification of this product: Immediate, Fire, Pressure

SARA Title 313 – This act requires submission of annual reports of releases of the following components of this material if the threshold reporting quantities, as listed in 40 CFR 372, are met or exceeded:

CHEMICAL NAME CAS NO. MAXIMUM CONCENTRATION COMMENT

No ingredients listed in this section.

Reportable Quantities/Threshold Planning Quantities: CERCLA requires notification of the National Response Center (Telephone 1-800-424-8802) in the event of a release of quantities of the following hazardous materials contained in this product, if the release is equal to or greater than the Reportable Quantities (RQs). SARA 302/304 requires emergency planning, including agency notification, for possible release of the following components of this material, based upon the Threshold Planning Quantities (TPQs) and/or release of Reportable Quantities.

CHEMICAL NAME REPORTABLE QUANTITY (RQ) THRESHOLD PLANNING QUANTITY (TPQ)

No ingredients listed in this section.

State & Provincial Right to Know & Selected Regulatory Lists

The following ingredients appear on various state right to know lists and/or California's Proposition 65 List

CHEMICAL NAME STATE LIST

n-Butane, Paraffinic, Napthenic Solvent, Propane PA

AZ – Arizona Ambient Air Quality Guidelines

CT – Connecticut Hazardous Air Pollutants

CA – California Director's List of Hazardous Substances

CA65C – California Prop 65 Carcinogen

CA65R – California Prop 65 Reproductive Toxin

FL – Florida Substances List

ID – Idaho Non-carcinogen Toxic Air Pollutants

WHMIS Classification: Not controlled under WHMIS (Canada).

IL – Illinois Toxic Air Contaminant – Carcinogenic

MA – Massachusetts Right to Know List

MN – Minnesota Hazardous Substance List

NJ – New Jersey Right to Know List

PA – Pennsylvania Right to Know List

RI – Rhode Island Hazardous Substance List

Section 16 – Other Information

Hazard Ratings

Hazard Rating Scale:

Hazard Rating Scale:

4 = Extreme

3 = High

2 = Moderate

1 = Slight

0 = Insignificant

HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZ	0

Information Contact: Arrow Chemical Products, Inc., 2067 Ste. Anne, Detroit, MI 48216

The seller makes no warranty expressed or implied concerning the accuracy of any results to be obtained from the use of any information and no warranty expressed or implied concerning the use of the products. The buyer assumes all risks of the use and/or handling.