

Material Safety Data Sheet

This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to product container). This MSDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities other than product use, while the product label provides that information specifically for product use in the ordinary use.

MANUFACTURER

Qualis, Inc.
4600 Park Ave.
Des Moines, IA 50321

TRANSPORTATION EMERGENCIES CALL:

800-424-9300, ChemTrec

OTHER INFORMATION CALLS

515-243-3000

RESPONSIBLE FOR MSDS PREPARATION

Environmental, Safety & Health Manager

SECTION 1 - IDENTITY

COMMON NAME: Bedding Spray with Permethrin

CHEMICAL FAMILY: Mixture

FORMULA: ZZ1029R1

EPA #: 34797-84

SECTION 2 - HAZARDOUS INGREDIENTS

PRINCIPAL HAZARDOUS COMPONENT(S)	Concentration (%)	THRESHOLD LIMIT VALUE
Permethrin (CAS # 52645-53-1)	0.5%	None Established (NE)
Isobutane (CAS # 75-28-5), Propane (CAS # 74-98-6) or Blend	≤ 15 %	1,000 ppm OSHA PEL
Petroleum Solvent (CAS # 64742-47-8 or 8042-47-5)	≤ 15 %	1,200 mg/m ³ Manufacturers Recommendation

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

BOILING POINT: Not determined (ND)

SPECIFIC GRAVITY (H₂O=1): 7.92 lb/gal @ 25°C

VAPOR PRESSURE (mm Hg): ND

MELTING POINT: ND

VAPOR DENSITY (AIR = 1): ND

EVAPORATION RATE (Butyl Acetate=1): ND

SOLUBILITY IN WATER: Soluble

REACTIVITY IN WATER: Stable

APPEARANCE AND ODOR: White to offwhite,
aerosol/liquid mixture with a mild, mothball-like odor

pH: 4.5 - 5.5

FLASH POINT: ND LEL: ND UEL: ND

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, pressure demand, breathing apparatus and full protective gear. Keep upwind. Isolate hazard area. Avoid inhalation of smoke and fumes.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents under pressure. Do not use near heat or open flame.
Exposure to temperatures above 130° F.

SECTION 4 - PHYSICAL HAZARDS

STABILITY: UNSTABLE STABLE

CONDITIONS TO AVOID: Excessive heat and sources of ignition.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents and acids.

HAZARDOUS DECOMPOSITION PRODUCTS: May form toxic materials: carbon dioxide, carbon dioxide, and various hydrocarbons.

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 5 - HEALTH HAZARDS

ROUTE(S) OF ENTRY:

INHALATION: SKIN/EYE: INGESTION: **SIGNS AND SYMPTOMS OF EXPOSURE:****ACUTE OVEREXPOSURE:**

- **SYSTEMIC EFFECTS:** May cause gastrointestinal effects such as nausea, vomiting and diarrhea, yellow nasal discharge and activity decrease. Inhalation of high vapor or mist concentrations can cause respiratory tract and eye irritation as well as central nervous system effects (Drowsiness, dizziness, nausea, head aches and loss of consciousness) including death.
- **EYES:** Causes moderate eye irritation.
- **SKIN:** Minimally irritating. Prolonged or repeated contact may result in contact dermatitis which is characterized by dryness, chapping and reddening.
- **INGESTION:** Harmful if swallowed. Not an expected route of exposure for an aerosol product.
- **INHALATION:** May be harmful if inhaled in excess.

CHRONIC OVEREXPOSURE: A statistically significant increase in incidence of lung and liver tumors was observed in female mice receiving diets containing 375 and 750 mg/kg/day of permethrin technical over 85 weeks.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None Known: but if taking any medication; consult a physician

LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN?

- National Toxicology Program: No
- I.A.R.C. Monographs: No
- OSHA: No

EMERGENCY AND FIRST AID PROCEDURES: Call poison control center or doctor immediately for treatment advice. Have product container or label with you when calling for treatment advice or going for treatment

EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Wash skin with soap and water. Call a poison control center or doctor for treatment advice.

INGESTION: Immediately call a poison control center or doctor. Do not induce vomiting unless instructed by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person

INHALATION: Move person to fresh air. Seek medical attention if irritation develops.

NOTES TO PHYSICIAN: Contains petroleum distillate – vomiting may cause aspiration pneumonia.

HINTS FOR PHYSICIAN: This product contains Pyrethroid pesticide. If a small amount is ingested (or if treatment is delayed), oral administration of large amounts of activated charcoal and a cathartic is probably sufficient therapy. If large amount is ingested and vomiting has not occurred, emesis should be induced with supervision. Keep patient's head below hips to prevent aspiration. If symptoms such as gag reflex, convulsions or unconsciousness occurs before emesis, gastric lavage using a cuffed endotracheal tube should be considered.

Do not administer milk, cream or substances containing vegetable or animal fats. These only enhance absorption of lipophilic substances.

If localized paresthesia develops, thoroughly wash site with soap and water. Cold cream can be applied to help diminish the effect.

SECTION 6 - SPECIAL PROTECTION INFORMATION

END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.

The following information is recommended for manufacturing/transportation or large spills:

RESPIRATORY PROTECTION: None, normally required with proper ventilation

VENTILATION:

LOCAL EXHAUST: As required

SPECIAL: Not required

MECHANICAL (General): Recommended

OTHER: Ventilate thoroughly before reoccupying area treated.

PROTECTIVE GLOVES: Chemical resistant gloves

EYE PROTECTION: Chemical splash goggles

OTHER PROTECTIVE EQUIPMENT: Eye Wash Station and Safety Shower

SECTION 7 - SPECIAL PRECAUTION AND SPILL/LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep out of Reach of Children. Do not get into eyes. Keep container tightly closed. Avoid contact with skin & eyes during handling. Avoid breathing. Store in a cool, dry, ventilated area. Contents under pressure. Do not use or store near heat or open flame. Exposure to temperatures above 130° F may cause bursting. Do not transport or store below 32° F.

OTHER PRECAUTIONS: This product is toxic to fish. Cover or remove fishbowls. Avoid contamination of feed or foodstuffs. Never place unused product down any indoor or outdoor drain. This product is not for use on humans.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Refer to container label for consumer disposal.

Manufacturing/transportation/large spills: Do not allow spill or clean-up materials to contaminate water supplies or sewers. Contain spill with absorbent material and place in an approved disposal container. Rinse spill area with small amounts of soapy water or neutralizing agent [dilute alkaline (base) solution], contain rinse with absorbant material and place in an approved disposal container.

WASTE DISPOSAL METHODS: Dispose of according to local, state and federal laws.

SECTION 8 – REGULATORY & OTHER INFORMATION

The following chemicals is listed on Toxic Substances Control Act (TSCA) Chemical Substance Inventory:

Permethrin (CAS # 52645-53-1), registered pesticide, exempt from TSCA.

The following chemicals are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372:

Permethrin (CAS # 52645-53-1), 1.0% de minimis concentration

Important: This information presented herein is offered only as a guide. Users should conduct their own evaluation to determine the suitability of this product for their own purposes. User assumes all risk of use, storage and handling of product.