

Material Safety Data Sheet

1. CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product Name: PERMETROL Permethrin 10% E.C.
Chemical Name: Mixture; active ingredient, permethrin
EPA Registry Number: 829-297
Southern Agricultural Insecticides, Inc.
P.O. Box 218
Palmetto, FL 34220

2. COMPOSITION / INFORMATION on INGREDIENTS

Component	Cas number	%
Permethrin	52645-53-1	10%
Other ingredients, including:		90%
Aliphatic Petroleum Distillates	64742-47-8	>80%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

A medium amber to light brown liquid with a very mild odor.
... Causes skin irritation and moderate eye injury.
... Harmful if inhaled.
... Prolonged or frequently repeated contact may cause allergic reactions in some individuals.
... This product is highly toxic to fish and bees.

POTENTIAL HEALTH EFFECTS

ROUTES OF EXPOSURE: Inhalation, eye and skin contact.

IMMEDIATE EFFECTS

SKIN: Causes skin irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

EYES: Causes moderate eye injury.

INHALATION: Harmful if inhaled.

DELAYED/LONG TERM EFFECTS

CARCINOGENIC: See Section 11 for carcinogenic/oncogenic information on permethrin.

4. FIRST AID MEASURES

After contact with skin: Wash with plenty of soap and water. Get medical attention if irritation persists.
After contact with eyes: Flush eyes with plenty of water. Call a physician if irritation persists.
After inhalation: Remove person to fresh air. Apply artificial respiration if indicated. Get medical attention.
After ingestion: Contact a Physician or Poison Control Center immediately.
Drink promptly a large quantity of skimmed milk, egg whites or gelatin solution, or if these are not available, large quantities of water. Avoid alcohol. Do not induce vomiting unless under a physician's care. This product contains petroleum distillate. Vomiting may cause aspiration pneumonia.
Hints for the physician: Do not administer or instill milk, cream or other substances containing vegetable or animal fats which enhance absorption of lipophilic substances.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flash point: 156° F 69° C TCC

Advice on protection against fire and explosion:

FIRE AND EXPLOSION HAZARDS: Do not use or store near heat or open flame. Do not use this product in or on electrical equipment due to the possibility of shock hazard.

FIRE FIGHTING INSTRUCTIONS: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear.

Suitable extinguishing media: Carbon dioxide, dry chemical, foam or water.

6. ACCIDENTAL RELEASE MEASURES

Soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste.

7. HANDLING and STORAGE

Handling:

... Do not get on skin or on clothing.
... Avoid breathing vapor or spray mist and contact with eyes.
... Do not use near heat or open flame.
... Do not use this product in or on electrical equipment.
... See Section 8 for proper personal protective equipment requirements.

Storage:

- ... Do not contaminate water, food or feed by storage.
- ... Store upright at room temperature.
- ... Avoid exposure to extreme temperatures.
- ... Do not store near heat or open flame.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hygiene measures:

- ... Wash thoroughly with soap and water after handling.
- ... Remove contaminated clothing and wash before reuse.

Personal protective equipment

Body protection: Impervious gloves.

Eye protection: Safety glasses or goggles.

9. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE: Medium amber to light brown liquid.

ODOR: Very mild.

BASIC PHYSICAL PROPERTIES

PHYSICAL STATE: Liquid

BOILING POINT: N/A

MELTING POINT: N/A

VAPOR PRESSURE: < 1 mmHg @ 25° C

VAPOR DENSITY (AIR=1): > 5

SPECIFIC GRAVITY: 0.84 @ 20° C

PACKING DENSITY: 7.0 lb/gal

SOLUBILITY (H₂O): Emulsifiable

PERCENT VOLATILES: 81

EVAPORATION RATE: < 0.1 (N-Butyl acetate = 1)

PH: Neutral

VISCOSITY: 2.25 cS @ 20° C

10. STABILITY and REACTIVITY

CHEMICAL STABILITY: Stable

INCOMPATIBILITY: Strong oxidizers.

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION

ACUTE STUDIES

THE FOLLOWING DATA WERE DEVELOPED WITH: Permanone Multi-Purpose 10% E.C.

EYE EFFECTS

(Rabbit) Moderately irritating

SKIN EFFECTS

Irritation (rabbit): Moderately irritating @ 72 hrs;

PDII = 4.2

Absorption (rabbit): LD50 > 5,050 mg/kg (practically non-toxic)

Sensitization (guinea pig): Not a sensitizer

ACUTE ORAL EFFECTS

LD50 (Rat) > 5,000 mg/kg (practically non-toxic)

ACUTE INHALATION EFFECTS

4-Hour LC50 (Rat) > 1.56 mg/L (max attainable concentration) (slightly toxic)

THE FOLLOWING DATA WERE DEVELOPED WITH: permethrin, the active ingredient

CHRONIC (CANCER INFORMATION)

A statistically significant increase in the 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.

CARCINOGENICITY: NTP: No IARC: No OSHA: No

TERATOGENICITY (BIRTH DEFECTS) Permethrin was not teratogenic when tested in rats.

MUTAGENICITY (GENETIC EFFECTS) Permethrin did not produce any mutagenic effects when tested in the Ames test.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: This product is highly toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply when wind speeds exceed 10 mph. Do not contaminate water when disposing of equipment washwaters. Shrimp and crab may be killed if application rates recommended on the label are exceeded. Use with caution where these are important resources. This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on the treated area. Do not apply this product or allow drift when bees are actively visiting the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by disposal.

Pesticide Disposal: Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility.

Container Disposal One Gallon and Smaller: Do not reuse container. Wrap container in several layers of newspaper and discard in trash.

Plastic Containers - Triple rinse or equivalent, then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Glass Containers - Triple rinse or equivalent, then dispose of in a sanitary landfill or by other approved state and local procedures.

RCRA CLASSIFICATION:

RCRA HAZARDOUS WASTE INGREDIENT: None.