

SECTION 1: IDENTIFICATION

Product Name: PERMASEASE® 30-30
Description: Insecticide
EPA Reg. No.: 86291-2-96263

Company Identification:
ADAPCO LLC
550 Aero Lane
Sanford, FL 32771

Emergency Response Telephone Numbers
For Spills Call: 1-(800)-424-9300
For Medical Emergencies Call: 1-(866)-897-8050

SECTION 2: HAZARD IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200



Signal word: Warning

Hazard statements

Harmful if swallowed, inhaled, or absorbed through the skin.
Causes moderate eye irritation.
May cause moderate skin irritation with prolonged or repeated contact.
May cause allergic skin reactions

Precautionary statements

Prevention

Wash thoroughly after handling.
Wear protective gloves.

Response

IF ON SKIN: Wash with plenty of water/soap. If skin irritation persists, get medical advice/ attention. Take off contaminated clothing and wash before reuse.

IF SWALLOWED: Call a poison control center/doctor/physician if you do not feel well. Rinse mouth.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison control center/doctor/physician if you do not feel well.

Dispose of contents/container in accordance with local regulation.

Other hazards

No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:	CAS NO.	(% w/w)
Permethrin	52645-53-1	30.0%
Piperonyl Butoxide	51-03-6	30.0%
Aliphatic Petroleum Distillate	64741-89-5	40.0%

SECTION 4: FIRST AID MEASURES

FIRST AID

If swallowed Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

If in 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 eye. Call a poison control center or doctor for treatment advice.

If on skin or clothing Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If inhaled	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
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Have the product container or label with you when calling a poison control center or doctor, or going for treatment. **Hotline Number:** You may also contact SafetyCall® International (866) 897-8050 for emergency medical treatment information.

Note to Physician: Contains petroleum distillate-vomiting may cause aspiration hazard.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point: >230°F (>110°C) (TCC)

Flammability Limits: Not determined

Extinguishing Media: Water fog, CO2, foam, dry chemical. Soft stream water of fog only if necessary.

Unusual Fire and Explosion Hazards: Pesticide fires have potential to emit hazardous decomposition products.

Fire-Fighting Procedures: Foam fire-extinguishing system is preferred because uncontrolled water can spread possible contamination. Do not allow fire-fighting water to escape into waterways or sewers. Toxic irritating gases can be formed.

Hazardous Decomposition Products: Under fire conditions hydrogen chloride, oxides of chlorine, carbon dioxide, carbon monoxide, and asphyxiants can be formed.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

Use personal protective equipment. Do not allow to enter soil, waterways, or wastewater canal.

SECTION 7: HANDLING AND STORAGE

Advice on safe handling: Use only in area provided with appropriate exhaust ventilation. Handle and open container in a manner as to prevent spillage.

Advice on protection against fire and explosion: Keep away from heat and sources of ignition.

Hygiene measures: Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet, or applying cosmetics.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

Requirements for storage areas and containers: Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls

Personal protective equipment: Please refer to the label and/or booklet. In all other cases the following recommendations would apply.

Respiratory protection: When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Hand protection: Chemical resistant nitrile rubber gloves

Eye protection: Safety glasses with side-shields

Skin and body protection: Wear long-sleeved shirt and long pants and shoes plus socks.

General protective measures: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm water. Keep and wash PPE separately from other laundry.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Color:	Yellow, Gardner 3
Physical State:	Liquid
Odor:	Faint Chemical Odor
Density:	0.992 g/cc @ 25° C
Flash Point:	>230° F (>110° C) (TCC)
Solubility:	Does not disperse in water
Viscosity:	30.17 CPS @ 25° C
pH:	3.74 (1% dispersion)
Stability:	Stable

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition	No data available
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	No data available
Incompatible materials	Strong oxidizing agents
Hazardous decomposition Products	No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies:

Acute Oral LD50 (Rat):	>1,000 mg/kg
Acute Dermal LD50 (Rabbit):	>2,000 mg/kg
Acute Inhalation LC50 (Rat):	>2.06 mg/L/4 hr
Eye Irritation:	Moderately irritating
Skin Irritation:	Moderately irritating
Dermal Sensitization:	Positive

Routes of Exposure: Skin, eye, inhalation, ingestion.

Systemic (Other Target Organ) Effects:

Excessive exposure may produce effects on the nervous system such as sensitivity to touch and sound, tremors, abnormal movement, and clonic convulsions. Long-term studies with permethrin in laboratory animal resulted in increased liver and kidney weights, induction of the liver microsomal drug metabolizing enzyme system, and histopathological changes in the lungs and liver. Long-term studies with piperonyl butoxide indicated increased organ weights in the liver, kidney, and adrenal glands.

Chronic Toxicity:

Permethrin caused neurobehavioral effects (e.g., tremors) and/or organ effects (liver, lung, and kidney) in chronic studies in rats, mice, and dogs. Piperonyl butoxide caused decreased body weights and/or increased organ weights (liver, kidney, adrenal) in chronic studies in rats and dogs.

Carcinogenicity:

Permethrin has low oncogenic potential in mice and no oncogenic potential in rats, therefore, EPA has concluded the likelihood of oncogenicity effects in humans from permethrin to be extremely low or nonexistent. Piperonyl butoxide gave no evidence of a carcinogenic potential in a lifetime feeding study in rats. In an oncogenicity study in mice, piperonyl butoxide caused an increased incidence of liver tumors. The US EPA has categorized piperonyl butoxide as a group C carcinogen, possible human carcinogen, based on limited evidence of cancer in laboratory animals.

Reproductive Toxicity:

Permethrin was not a reproductive toxicant in multi-generation reproduction studies in rats. Piperonyl butoxide was not a reproductive toxicant in a two-generation study in rats.

Developmental Toxicity:

Permethrin was not a primary developmental toxicant in rats, mice, and rabbits. Developmental effects (e.g., decreased fetal weights) were observed in rats and rabbits but were considered secondary to maternal toxicity. Piperonyl butoxide did not cause developmental, embryotoxic or teratogenic effects in developmental toxicity studies in rats and rabbits.

Neurotoxicity:

Permethrin caused neurobehavioral effects (e.g., tremors) in an acute and subchronic neurotoxicity screening study in rats without any correlating neuropathological changes.

Piperonyl butoxide did not demonstrate the potential to cause neurotoxicity in standard toxicity studies submitted to the Agency. EPA has concluded that there is not a concern for neurotoxicity resulting from exposure to piperonyl butoxide.

Mutagenicity:

Permethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo mutagenicity studies. Piperonyl butoxide does not have significant potential for mutagenicity based on sufficient evidence.

SECTION 12: ECOLOGICAL INFORMATION

Environmental Hazards: This pesticide is extremely toxic to aquatic organisms, including fish and aquatic invertebrates. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds.

Bioaccumulation (Permethrin & Piperonyl butoxide): Will not bioaccumulate.

Environmental Fate

Permethrin: The average half-life of permethrin in aerobic soils is 39.5 days, with a range from 11.6 to 113 days. Permethrin binds tightly to soil and is broken down primarily by microorganisms, but also by photolysis.

Piperonyl Butoxide: Reported to have a maximum half-life of 4.3 days in soil and from 0.55 to 1.64 days in aqueous environments. Gravitational settling removes piperonyl butoxide released in the atmosphere as an aerosol. Gaseous piperonyl butoxide degrades in the atmosphere with an estimated half-life of 3.4 hours.

Ecotoxicological Information

Permethrin: (EPA Ecotox Database)

Rain trout LC50 (96-h):	0.62 µg/L
Bluegill LC50 (96-h):	0.79 µg/L
Bobwhite quail LD50 (8-day):	5,200 ppm

Piperonyl Butoxide: (Based on Piperonyl Butoxide Technical)

Rainbow trout LC50 (96-h):	6.12 ppm
Bluegill Sunfish LC50 (96-h):	5.37 ppm
Bobwhite Quail LD50 (Oral):	> 2,250 mg/kg
Bobwhite Quail LC50 (5-day dietary):	> 5,620 ppm
Mallard Duck LC50 (5-d dietary):	> 5,620 ppm

SECTION 13: DISPOSAL CONSIDERATIONS

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site, or at an approved waste disposal facility.

Container Disposal: Triple rinse (or equivalent) promptly after emptying. Do not reuse or refill this container. Offer for recycling if available. If recycling is not available then dispose of container in a sanitary landfill or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Follow directions on product label or booklet.

RCRA Information: Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State, and local laws and are the user's responsibility. RCRA classification may apply. When and if this material is determined to be a waste, if discarded, this material may carry RCRA waste code(s) **NON-RCRA**. State and local laws may vary and must be considered.

SECTION 14: TRANSPORTATION INFORMATION

49CFR	Not dangerous goods / not hazardous material
IMDG	
UN number	3082
Class	9
Packing group	III
Marine Pollutant	YES
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN, PIPERONYL BUTOXIDE SOLUTION)
IATA	
UN number	3082
Class	9
Packing group	III
Marine Pollutant	YES
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN, PIPERONYL BUTOXIDE SOLUTION)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variances due to package size or special transportation.

Freight Classification INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

SECTION 15: REGULATORY INFORMATION

EPA/FIFRA Information:

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

CAUTION. Harmful if swallowed, inhaled, or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. While using or handling this product wear long sleeved shirt and long pants, socks, and shoes. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Remove contaminated clothing and wash clothing before reuse.

SARA Title III Classification:

Section 302:	Not applicable.
Section 311/312:	Acute health hazard (immediate) Chronic health hazard (delayed)

ADAPCO LLC
PERMASEASE® 30-30

SAFETY DATA SHEET

Section 313: Permethrin (30.0%) CAS #:52645-53-1
Piperonyl Butoxide (30.0%) CAS #: 51-03-6

CA Proposition 65: Not applicable

CERCLA RQ: Not applicable.

RCRA Classification: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA Status: The ingredients of this product are listed on the TSCA inventory or are exempt.

SECTION 16: OTHER INFORMATION

HAZARD RATINGS	NFPA	HMIS		
HEALTH:	1	1	0	MINIMAL
FLAMMABILITY:	1	1	1	SLIGHT
REACTIVITY:	0	0	2	MODERATE
			3	HIGH
			4	SEVERE

SDS Date: August 18, 2020

This document is prepared pursuant to the OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200(g)), revised in 2012. In addition, other substances not "Hazardous" per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state, and local laws and regulations. See SDS for health and safety information.