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Print Date: 02/09/2015

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PERMANONE® 30-30

Version 3.0 / USA 102000013918

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name PERMANONE® 30-30

Product code (UVP) 05866587

SDS Number 102000013918

EPA Registration No. 101563-41

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

Use Insecticide

Restrictions on use See product label for restrictions.

Information on manufacturer

Environmental Science U.S. LLC 5000 CentreGreen Way Ste. 400

Cary, NC 27513 United States

Emergency telephone no.

Emergency Telephone Number (24hr/ 7 days) 1-703-741-5970

Product Information Telephone Number

1-800-331-2867

SDS Information or Request uscontact@envu.com

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

Skin irritation: Category 2

Acute toxicity (Oral, Inhalation): Category 4



Signal word: Warning

Hazard statements

Causes skin irritation.

Harmful if swallowed or if inhaled.

Precautionary statements

Wash thoroughly after handling.

Wear protective gloves.



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Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

IF ON SKIN: Wash with plenty of water/soap.

Specific treatment (see supplemental first aid instructions on this label).

If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.

Rinse mouth.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

Dispose of contents/container in accordance with local regulation.

Other hazards

No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Permethrin	52645-53-1	30.00
Piperonyl butoxide	51-03-6	30.00
HYDROTREATED MIDDLE DISTILLATES	64742-46-7	38.80
(PETROLEUM)		

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice When possible, have the product container or label with you when

calling a poison control center or doctor or going for treatment.

Inhalation Move to fresh air. If person is not breathing, call 911 or an ambulance,

then give artificial respiration, preferably mouth-to-mouth if possible. Call

a physician or poison control center immediately.

Skin contact Take off contaminated clothing and shoes immediately. Wash off

immediately with plenty of water for at least 15 minutes. Call a physician

or poison control center immediately.

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Eye contact

> Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center

immediately.

Ingestion Call a physician or poison control center immediately. Rinse out mouth

and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim

unattended.

Most important symptoms and effects, both acute and delayed



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Symptoms To date no symptoms are known.

Indication of any immediate medical attention and special treatment needed

Risks Contains hydrocarbon solvents. May pose an aspiration pneumonia

hazard. This product contains a pyrethroid.

Treatment Appropriate supportive and symptomatic treatment as indicated by the

patient's condition is recommended. There is no specific antidote.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable Carbon dioxide (CO2), Dry chemical, Foam, Water

Unsuitable None known.

Special hazards arising from the substance or

mixture

Dangerous gases are evolved in the event of a fire.

Advice for firefighters

Special protective

equipment for fire-fighters

fire-fighters apparatus and full protective clothing.

Further information Keep out of smoke. Fight fire from upwind position. Cool closed

containers exposed to fire with water spray. Do not allow run-off from

Firefighters should wear NIOSH approved self-contained breathing

fire fighting to enter drains or water courses.

Flash point 129.5 °C

Autoignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Explosivity not applicable

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions Keep unauthorized people away. Isolate hazard area. Avoid contact

with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up

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.

Additional advice Use personal protective equipment. Do not allow to enter soil,



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waterways or waste water canal.

Reference to other sections Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

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.

Conditions for safe storage, including any incompatibilities

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

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Permethrin	52645-53-1	5 mg/m3 (TWA)	03 2014	ACGIH
Permethrin	52645-53-1	5 mg/m3 (REL)	2010	NIOSH
Permethrin	52645-53-1	5 mg/m3 (PEL)	02 2006	OSHA Z1
Permethrin	52645-53-1	5 mg/m3 (TWA)	1989	OSHA Z1A
Permethrin	52645-53-1	5 mg/m3 (TWA)	06 2008	TN OEL
Permethrin (Particulate.)	52645-53-1	50ug/m3 (ST ESL)	02 2013	TX ESL
Permethrin (Particulate.)	52645-53-1	5ug/m3 (AN ESL)	02 2013	TX ESL



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Permethrin	52645-53-1	5 mg/m3 (TWA PEL)	09 2013	US CA OEL
Permethrin	52645-53-1	10 mg/m3 (TWA)		OES BCS*
Piperonyl butoxide	51-03-6	500 ppm (TWA)		OES BCS*
HYDROTREATED MIDDLE DISTILLATES (PETROLEUM) (Inhalable fraction.)	64742-46-7	5 mg/m3 (TWA)	03 2014	ACGIH
HYDROTREATED MIDDLE DISTILLATES (PETROLEUM)	64742-46-7	3500ug/m3 (ST ESL)	02 2013	TX ESL
HYDROTREATED MIDDLE DISTILLATES (PETROLEUM)	64742-46-7	350ug/m3 (AN ESL)	02 2013	TX ESL

^{*}OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. 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/tepid

water.

Keep and wash PPE separately from other laundry.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance beige to brown

Physical State Liquid

Odor characteristic
Odour Threshold no data available
pH no data available
Vapor Pressure no data available



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Vapor Density (Air = 1) no data available

Density ca. 0.99 g/cm³ at 20 °C

Bulk density 8.25 lb/gal

Evapouration rate

Boiling Point
Melting / Freezing Point

Water solubility
Minimum Ignition Energy
Decomposition
temperature

no data available
no data available
not applicable
no data available

Partition coefficient: n-

octanol/water

not applicable

Viscosity 47 mPa.s at 20 °C

Flash point 129.5 °C

Autoignition temperatureno data availableLower explosion limitno data availableUpper explosion limitno data availableExplosivitynot applicable

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

Exposure routes

Eye contact, Skin contact, Ingestion, Inhalation

Immediate Effects



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Eye Moderate eye irritation.

Skin Causes skin irritation. Harmful if absorbed through skin.

Ingestion Harmful if swallowed.

Inhalation May be harmful if inhaled.

Information on toxicological effects

Acute oral toxicity LD50 (male/female combined rat) 993 mg/kg

Acute inhalation toxicity LC50 (rat) > 2.2 mg/l

Exposure time: 4 h

Determined in the form of liquid aerosol.

LC50 (rat) > 8.8 mg/l Exposure time: 1 h

Determined in the form of liquid aerosol.

Extrapolated from the 4 hr LC50.

Acute dermal toxicity LD50 (rat) > 2,000 mg/kg

Skin irritation Moderate skin irritation. (rabbit)

Eye irritation Mild eye irritation. (rabbit)

Sensitisation Non-sensitizing. (guinea pig)

Assessment repeated dose toxicity

Permethrin did not cause specific target organ toxicity in experimental animal studies. Piperonyl butoxide did not cause specific target organ toxicity in experimental animal studies.

Assessment Mutagenicity

Permethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Piperonyl butoxide was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment Carcinogenicity

HYDROTREATED MIDDLE DISTILLATES

Permethrin caused at high dose levels an increased incidence of tumours in mice in the following organ(s): liver, Lungs. The mechanism that triggers tumours in rodents is not relevant for the low exposures encountered under normal use conditions.

64742-46-7

Group A4

Piperonyl butoxide was not carcinogenic in lifetime feeding studies in rats and mice.

ACGIH

(PETROLEUM)	011 12 10 1	Croup / tr
NTP		
HYDROTREATED MIDDLE DISTILLATES (PETROLEUM)	64742-46-7	1980
IARC		
Permethrin Piperonyl butoxide HYDROTREATED MIDDLE DISTILLATES (PETROLEUM)	52645-53-1 51-03-6 64742-46-7	Overall evaluation: 3 Overall evaluation: 3 Overall evaluation: 3
HYDROTREATED MIDDLE DISTILLATES	64742-46-7	Overall evaluation: 1



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(PETROLEUM)

OSHA

None.

Assessment toxicity to reproduction

Permethrin did not cause reproductive toxicity in a two-generation study in rats. Piperonyl butoxide did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

Permethrin did not cause developmental toxicity in rats and rabbits.

Piperonyl butoxide did not cause developmental toxicity in rats and rabbits.

Further information

Only acute toxicity studies have been performed on the formulated product.

The non-acute information pertains to the active ingredient(s).

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish LC50 (Poecilia reticulata (guppy)) 0.0076 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient permethrin. LC50 (Cyprinodon variegatus (sheepshead minnow)) 3.94 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient piperonyl butoxide.

Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) 0.00017 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient permethrin.

EC50 (Daphnia magna (Water flea)) 0.51 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient piperonyl butoxide.

Toxicity to aquatic plants EC50 (Algae) 0.5 mg/l

Exposure time: 72 h

The value mentioned relates to the active ingredient permethrin.

EC50 (Algae) > 9.1 mg/l Exposure time: 72 h

The value mentioned relates to the active ingredient piperonyl butoxide.

Biodegradability Permethrin: ; not rapidly biodegradable

Piperonyl butoxide: ; not rapidly biodegradable

Koc Permethrin: Koc: 100000

Piperonyl butoxide: Koc: 399 - 830

Bioaccumulation Permethrin: Bioconcentration factor (BCF) 300; Does not



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bioaccumulate.

Piperonyl butoxide: ; Potential bioaccumulation

Mobility in soil Permethrin: Immobile in soil

Piperonyl butoxide: Moderately mobile in soils

Environmental precautions Do not apply when weather conditions favor runoff or drift.

Drift and runoff from treated areas may be hazardous to aquatic

organisms in adjacent sites.

Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or

disposal of wastes, including equipment wash water.

Apply this product as specified on the label.

Do not apply this product or allow it to drift to blooming crops or weeds if

bees are visiting the treatment area.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product Pesticide, spray mixture or rinse water that cannot be used according to

label instructions may be disposed of on site or at an approved waste

disposal facility.

Contaminated packaging Triple rinse containers.

Puncture container to avoid re-use.

Dispose of empty container in a sanitary landfill or by incineration, or, if

allowed by State/Provincial and local authorities, by burning.

If burned, stay out of smoke.

Follow advice on product label and/or leaflet.

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: TRANSPORT INFORMATION

49CFR Not dangerous goods / not hazardous material

IMDG

UN number 3082
Class 9
Packaging group III
Marine pollutant YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

NOS

(PERMETHRIN, PIPERONYL BUTOXIDE SOLUTION)



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IATA

UN number 3082
Class 9
Packaging group III
Environm. Hazardous Mark 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 variations due to package size or special transportation requirements.

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

POISON

SECTION 15: REGULATORY INFORMATION

EPA Registration No. 101563-41

US Federal Regulations

TSCA list

Piperonyl butoxide 51-03-6 HYDROTREATED MIDDLE 64742-46-7

DISTILLATES (PETROLEUM)

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D) None.

SARA Title III - Section 302 - Notification and Information

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

 Permethrin
 52645-53-1
 1.0%

 Piperonyl butoxide
 51-03-6
 1.0%

US States Regulatory Reporting

CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

US State Right-To-Know Ingredients

Permethrin 52645-53-1 NJ, RI Piperonyl butoxide 51-03-6 NJ, RI HYDROTREATED MIDDLE 64742-46-7 CA

DISTILLATES (PETROLEUM)

Canadian Regulations

Canadian Domestic Substance List

HYDROTREATED MIDDLE 64742-46-7

DISTILLATES (PETROLEUM)



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Environmental CERCLA

None.

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

Permethrin 52645-53-1

International Regulations

European Inventory of Existing Commercial Substances (EINECS)

Permethrin 52645-53-1 HYDROTREATED MIDDLE 64742-46-7

DISTILLATES (PETROLEUM)

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:

Signal word: Caution!

Hazard statements: Harmful if swallowed or absorbed through skin.

Moderate eye irritation.

Avoid contact with skin, eyes and clothing.

SECTION 16: OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 2 Flammability - 1 Instability - 0 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1 Flammability - 1 Physical Hazard - 0 PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

Revision Date: 02/09/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, infor-mation and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS mate-rial is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the app-ropriateness of the SDS material in the user's end product, if applicable.