

A company of Hoechst and Schering, Berlin

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Issue Date: 12/29/94
Supersedes: None**SCOURGE INSECTICIDE WITH SBP-1382/PB 18% + 54% MF FORMULA II****SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**ArEvo Environmental Health
98 Chestnut Ridge Road
Montvale, NJ 03645COMPANY CONTACT : *Regulatory Department*
TELEPHONE NUMBER : *(800)438-5837*EMERGENCY TELEPHONE NUMBER
1-0660PRODUCT NAME : **SCOURGE INSECTICIDE W/ SBP- 7382 18% + 54% MF FORMULA II**
PRODUCT CODE : *B215011*
CHEMICAL FAMILY: *Mixture*
EPA REGISTRY NUMBER: 432-667
MSDS IDENTIFICATION CODE/NUMBER: 8215017**SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT NAME	EXPOSURE LIMITS	CONCENTRATION PERCENT BY WEIGHT
Resmethrin CAS NUMBER: 10453-86-8	None established	= 18
Piperonyl Butoxide CAS NUMBER: 51-03-6	None established	= 54
Aromatic Petroleum Solvent CAS NUMBER: 64742-94-5	100 ppm company recommended	> 20

SECTION 3. HAZARDS IDENTIFICATION***** **EMERGENCY OVERVIEW** *****
Health: Harmful-if swallowed. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly after handling.
Environmental: This product is toxic to fish.
*******POTENTIAL HEALTH EFFECTS****PRIMARY ROUTE(S) OF ENTRY***Ingestion, inhalation, skin and eye contact.***EYES***Non-irritating to the eye.***SKIN***Slightly irritating to the skin.***INGESTION***Harmful if swallowed.***CHRONIC (CANCER INFORMATION)***See Section 11 for carcinogenic/oncogenic information on piperonyl butoxide.***SIGNS AND SYMPTOMS***Humans might experience transient headache, dizziness, stuffy or runny nose, and scratchy throat.*

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SECTION 3. HAZARDS IDENTIFICATION - Continued

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None known.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE

None Known.

SECTION 4. FIRST AID MEASURES

EYES

Flush eyes with plenty of water for at least 75 minutes. Get medical attention if irritation persists.

SKIN

Remove all contaminated clothing. Wash with plenty of soap and of water. Get medical attention if irritation persists.

INGESTION

Call a physician or Poison Control Center. This product contains petroleum solvent. Aspiration may be a hazard.

INHALATION

Remove to fresh air. If breathing is difficult or if discomfort persists, obtain medical attention.

NOTE TO PHYSICIAN

This product contains a pyrethroid and a petroleum solvent. If ingested and vomiting has not occurred, emesis should be induced with supervision. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage using a cuffed endotracheal tube should be considered.

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

SECTION 5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: 166°F 74°C TCC

FIRE AND EXPLOSION HAZARDS

Do not use, pour, spill or store near heat or open flame.

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, and Foam.

FIRE FIGHTING INSTRUCTIONS

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

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

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SECTION 7. HANDLING AND STORAGE

HANDLING PRECAUTIONS

Avoid breathing vapor or spray mist. Avoid contact with skin, eyes, or clothing. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes.

STORAGE PRECAUTIONS

Store product in original container in a locked storage area.

WORK/HYGIENIC PRACTICES

Wash thoroughly after handling.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION

Safety glasses or goggles.

SKIN PROTECTION

chemical resistant gloves.

RESPIRATORY PROTECTION

A NIOSH approved pesticide respirator should be worn in poorly ventilated areas.

OTHER/GENERAL PROTECTION

Apron, long sleeves, and pants.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Amber liquid.

ODOR

Mild pain t-like solvent odor.

BASIC PHYSICAL PROPERTIES

PHYSICAL STATE: *liquid*

SPECIFIC GRAVITY: *1.01 gram/cubic cm at 21°C*

PACKING DENSITY: *8.47 lb/gal*

VISCOSITY: *35.6 cp at 21.4°C*

SECTION 10. STABILITY AND REACTIVITY

STABILITY: *Stable*

CONDITIONS TO AVOID (STABILITY)

extreme heat or sources of ignition.

INCOMPATIBLE MATERIALS

Strong oxidizing and strong reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition products may include carbon monoxide and carbon dioxide.

HAZARDOUS POLYMERIZATION : *Will not occur.*

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SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE STUDIES

Exposure levels tested in animals at or near the LD50/LC50 have produced the following symptoms: decreased activity, loss of coordination, salivation and erect body hair.

EYE EFFECTS

Category IV. Non-irritating.

SKIN EFFECTS

Slightly irritating to the skin. LD50 (rabbit) > 2000 mg/kg.

ACUTE ORAL EFFECTS

LD50 (rat) 2.7 g/kg.

ACUTE INHALATION EFFECTS

4 hour LC50 (rats) > 2.64 mg/L the maximum attainable concentration.

SUBCHRONIC (TARGET ORGAN EFFECTS)

The NOEL established for resmethrin in a 90-day inhalation study with rats was 0.1 g/m³ or 0.1 mg/L. The NOEL for resmethrin was 10 mg/kg/day in the diet fed to dogs for 180 days. Rats tolerated diets containing 5000 ppm of piperonyl butoxide without adverse effects for 17 weeks.

CHRONIC (CANCER INFORMATION)

Resmethrin was not considered to be oncogenic based on chronic feeding studies conducted in rats and mice.

A statistically significant increase in the number of benign liver tumors appeared in mice fed piperonyl butoxide technical at doses which far exceed any anticipated daily human intake. Independent and industry toxicological experts who have reviewed the data agree that the findings of the study do not indicate a health risk to human beings.

CARCINOGENICITY: NTP: No IARC: No OSHA : No

TERATOGENICITY (BIRTH DEFECTS)

Resmethrin is not considered to be teratogenic based on studies conducted in rabbits and rats. Piperonyl Butoxide was not considered to be fetotoxic nor teratogenic on a study in rabbits.

REPRODUCTIVE EFFECTS

No effect on reproductive parameters were observed in rats fed diets containing up to 500 ppm or higher of resmethrin over two successive generations. Reproductive performance and offspring development in rats were unaffected when piperonyl butoxide was fed at dietary concentrations of up to 1000 ppm over two successive generations.

NEUROTOXICITY

Resmethrin is not considered to be a neurotoxin based on rat feeding studies conducted for up to 32 weeks.

MUTAGENICITY (GENETIC EFFECTS)

Resmethrin is not considered to be mutagenic based on in vitro studies conducted with bacteria and yeast.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None known.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE

None known.

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SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

ACUTE AND LONG-TERM TOXICITY TO FISH AND INVERTEBRATES

The 96-hour LC50 value for Scourge in Rainbow trout, Bluegill sunfish and Sheepshead minnows are: 2.40 ppb, 13.00 ppb and 8.80 ppb respectively. The 48-hour LC50 for *Daphnia magna* in 0.10 ppm. For *Penaeus shrimp* and American oyster, the 96-hour LC50 for Scourge is 7.25 ppb and approximately 1.79 ppm, respectively.

ACUTE AND DIETARY TOXICITY TO BIRDS

The acute oral LD50 of resmethrin in male California quail was in excess of 2000 mg/kg. The LC50 of resmethrin fed to Japanese quail in their diet was > 5000 ppm. The LC50 of resmethrin fed to mallard ducks was also > 5000 ppm. Dietary administration of resmethrin at 300 ppm for 23 weeks produced no adverse effects on reproduction in Bobwhite quail and in Mallard ducks.

OTHER ENVIRONMENTAL INFORMATION

For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to Intertidal areas below the mean high water mark.

SECTION 13. DISPOSAL CONSIDERATIONS

For containers 7 gallon and under: Do not reuse empty container. Wrap and put in trash.

For containers over 1 gallon: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

SECTION 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not DOT Regulated

SECTION 15. REGULATORY INFORMATION

SARA TITLE III NOTIFICATIONS AND INFORMATION

SARA TITLE III- SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of section 373 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372:

<u>CAS NUMBER</u>	<u>INGREDIENT NAME</u>	<u>PERCENT BY WEIGHT</u>
10453-86-8	Resmethrin	=
5 1-03-6	Piperonyl Butoxide	= 54

This information must be included on all MSDSs that are copied and distributed for this material.

REGULATED INGREDIENTS

INGREDIENT: Resmethrin

CAS NUMBER: 10453-86-8

PERCENT BY WEIGHT := 18

Regulations : SARA section 313 Toxic Chemical

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SECTION 15. REGULATORY INFORMATION - Continued

REGULATED INGREDIENTS - Continued

INGREDIENT: Piperonyl Butoxide
CAS NUMBER: 51-03-6
PERCENT BY WEIGHT: = 54
Regulations : SARA Section 313 Toxic Chemical

SECTION 16. OTHER INFORMATION

NFPA HAZARD RATING - HEALTH: 1 Slight
- FIRE: 2 Moderate
- REACTIVITY: 1 Slight
- Special:

HMIS HAZARD RATING - HEALTH: 1 Slight
- FIRE: 2 Moderate
- REACTIVITY: 1 Slight
- Protection: G

MSDS IDENTIFICATION CODE/NUMBER : B2 1507 7

PREPARED BY: Regulatory Dept. PHONE :(800)438-5837

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DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

Buyer assumes all responsibility for safety and use, not in accordance with directions.