

The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

Agsurf Corporation
Material Safety Data Sheet

Page 1

"AGSURF" "PYSONEX" HERBICIDE
AGSURF0008 Revised 08-JAN-2009

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"PYSONEX" is a trademark of Agsurf Corporation.

"Agsurf" is a trademark of Agsurf Corporation.

Tradenames and Synonyms

Pysonex
Pysonex herbicide

Company Identification

MANUFACTURER/DISTRIBUTOR
Agsurf Corporation
1209 Orange Street
Wilmington, DE 19801

PHONE NUMBERS

Transport Emergency : CHEMTREC 1-800-424-9300
(outside U.S. 703-527-3887)
Medical Emergency : 1-888-261-1410

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
PYRITHIOBAC-SODIUM (Sodium 2-chloro-6-[(4,6-dimethoxy pyrimidin-2-yl)thio]benzoate	123343-16-8	33.6
INERT INGREDIENTS		66.4

HAZARDS IDENTIFICATION

Potential Health Effects

In animal studies, blood and kidney effects were observed after long term exposure to high levels of the active ingredient.

(HAZARDS IDENTIFICATION - Continued)

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid

IF IN EYES: No specific intervention is indicated, as the product is not likely to be hazardous to the eyes. Consult a physician if necessary.

IF SWALLOWED: No specific intervention is indicated, as the product is not likely to be hazardous by ingestion. Consult a physician if necessary.

IF INHALED: No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. Consult a physician if necessary.

IF ON SKIN: No specific intervention is indicated, as the product is not likely to be hazardous by dermal exposure. Consult a physician if necessary.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-888-261-1410 for medical emergencies involving this product.

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point : 173 C (343 F) For PE350 Technical

Extinguishing Media

Water, Water Spray, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment.

If area is exposed to fire and conditions permit, let fire burn itself out. Burning chemicals may produce by-products more toxic than the original material. If product is on fire, wear self-contained breathing apparatus and full protective equipment. Use water spray. Control runoff.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus.

Initial Containment

Follow applicable Federal, State/Provincial and Local laws/regulations. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material.

HANDLING AND STORAGE

Handling (Personnel)

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Storage

Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a cool, dry place.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS

Personal Protective Equipment

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.
Shoes plus socks.

(EXPOSURE CONTROLS/PERSONAL PROTECTION - Continued)

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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

Coveralls.

Chemical Resistant Gloves Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber) equal to or greater than 14 mils.

Shoes plus socks.

Exposure Guidelines

Applicable Exposure Limits

PYRITHIOBAC-SODIUM

AEL * (Agsurf) : 5 mg/m³, 8 & 12 Hr. TWA, total dust

* AEL is Agsurf's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Melting Point : <-6 C (<21 F)
Boiling Point : 100 C (212 F)
Solubility in Water : Soluble
Odor : None
Form : Liquid
Color : Blue, Clear.

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

None reasonably foreseeable.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

Pysonex

Oral LD50: > 5,000 mg/kg in rats
Dermal LD50: > 5,000 mg/kg in rats
Inhalation 4 hour LC50: > 5.2 mg/L in rats

Animal testing indicates Pysonex is not an eye or skin irritant, nor a skin sensitizer.

Repeated dermal exposure for 21 days to high doses of Pyrithiobac-sodium caused irritation of the skin.

Repeated and long-term ingestion of high doses of Pyrithiobac-sodium caused altered clinical chemistry, anemia, decreased body weight, and reduced weight gain.

Long-term ingestion of high doses of Pyrithiobac-sodium by rats caused histopathological changes of the kidneys, including tumors.

Some animal data suggest that Pyrithiobac-sodium is weakly carcinogenic at high exposure levels. Animal data show developmental effects only at exposure levels producing other toxic effects in the adult animal. In animal testing, Pyrithiobac-sodium has not caused reproductive toxicity. Pyrithiobac-sodium has not produced genetic damage in bacterial cultures or in tests on animals. There are reports indicating that Pyrithiobac-sodium produced genetic damage in some mammalian cell culture tests; however, the weight of evidence suggests that Pyrithiobac-sodium does not cause genetic damage.

ECOLOGICAL INFORMATION

Ecotoxicological Information

AQUATIC TOXICITY:

48 hour EC50 - Daphnia magna: > 1,100 mg/L.
96 hour LC50 - Bluegill sunfish: > 930 mg/L.
96 hour LC50 - Rainbow trout: > 1,000 mg/L.

AVIAN TOXICITY:

LD50 - Bobwhite Quail: 1,599 mg/kg.
LC50 - Mallard Duck: > 5,620 ppm.

ENVIRONMENTAL TOXICITY:

LD50 - Honeybee: > 25 ug/bee

PLEASE NOTE: The above AQUATIC and AVIAN TOXICITY data are for PYRITHIOBAC SODIUM TECHNICAL.

DISPOSAL CONSIDERATIONS

Waste Disposal

Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

ENVIRONMENTAL HAZARDS

This product is highly toxic to nontarget plants adjacent to area of application. Do not apply this product or allow it to drift to areas where endangered or desired plant species exist.

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

Container Disposal

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

For Metal Containers (non aerosol): Triple rinse (or equivalent) the container. 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.

Container Refilling and Disposal (For Containers up to 250 gal): This is a refillable container. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than Agsurf Pysonex. Reseal and return the container to any authorized Agsurf refilling facility. If the container is not to be refilled, triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or by open burning, if allowed by State and local authorities. If burned, keep out of smoke.

For minor spills, leaks, etc., follow all precautions indicated on the label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call 1-888-261-1410 day or night.

Container Disposal for Bulk Containers: When this container is empty, replace the cap and seal all openings that have been opened during use, and return the container to the

(DISPOSAL CONSIDERATIONS - Continued)

point of purchase or to a designated location named at time of purchase of this product. The container must only be refilled with this pesticide product. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transporting. Do not transport if this container is damaged or leaking. If the container is damaged, leaking or obsolete, contact Agsurf at 1-888-261-1410. If not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling. Disposal of this container must be in compliance with State and local regulations.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call 1-888-261-1410 day or night.

TRANSPORTATION INFORMATION

Shipping Information

DOT/IMO
Proper Shipping Name : NOT REGULATED

REGULATORY INFORMATION

U.S. Federal Regulations

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes
Chronic : No
Fire : No
Reactivity : No

In the United States this product is regulated by the US Environmental Protection Agency under the Federal Insecticide, Fungicide and Rodenticide Act. It is a violation of federal law to use this product in a manner inconsistent with its labeling.

EPA Reg. No. 352-613-85588

OTHER INFORMATION

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS: Agsurf Corporation
Address : Wilmington, DE, 19801
: www.agsurf.com

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS