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Agsurf Corporation
Material Safety Data Sheet

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Agsurf "Sulfomet" Extra Herbicide
AGSURF0005 Revised 01-SEP-2008

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"Sulfomet" is a trademark of Agsurf.
"Agsurf" is a trademark of Agsurf Corporation

Tradenames and Synonyms

Sulfomet Extra
Sulfomet Extra Herbicide
SULFOMETURON METHYL
METSULFURON METHYL

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	%
SULFOMETURON METHYL	74222-97-2	56.25
Methyl 2-[[[(4,6-Dimethyl-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]benzoate		
METSULFURON METHYL	74223-64-6	15.00
Methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]benzoate		
INERT INGREDIENTS		28.75

HAZARDS IDENTIFICATION

Emergency Overview

CAUTION! Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

Potential Health Effects

Based on animal data for components, eye contact with Sulfomet Extra may cause eye irritation with tearing, pain, or blurred vision.

Based on animal data, repeated dermal contact with an active ingredient may cause skin irritation with itching, burning, redness, swelling or rash.

Based on animal data, ingestion of high doses of SULFOMETURON METHYL may lead to red blood cell destruction.

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 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 further treatment advice.

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 five minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

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 product is not likely to be hazardous by inhalation. 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 emergency medical treatment information.

FIRE FIGHTING MEASURES

Flammable Properties

Flammable limits in Air, % by Volume
LEL : 0.092 g/L

Not a fire or explosion hazard.

Like most organic powders or crystals, under severe dusting conditions, this material may form explosive mixtures in air.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

Wear self-contained breathing apparatus. Wear full protective equipment. Use water spray. Runoff from fire control may be a pollution hazard.

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.

Emergency Response - Chemical resistant coveralls, waterproof gloves, waterproof boots and face/eye protection. If dusting occurs, use NIOSH approved respirator protection.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Follow applicable Federal, State/Provincial and Local laws/regulations.

Spill Clean Up

Shovel or sweep up.

(ACCIDENTAL RELEASE MEASURES - Continued)

For minor spills, leaks, etc., follow all precautions indicated on the product 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.

HANDLING AND STORAGE

Handling (Personnel)

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

Avoid breathing vapors or mist. Avoid breathing dust. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Do not store or consume food, drink, or tobacco in areas where they may become contaminated with this material.

Handling (Physical Aspects)

Avoid dust generation. Keep away from heat, sparks and flames.

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

Use only with adequate ventilation. Keep container tightly closed.

When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the Workers Protection Standard (WPS) for agricultural pesticides [40 CFR part 170 Section 170.240(d)(4-6)]. The handler PPE requirements may be reduced or modified as specified in the WPS.

Personal Protective Equipment

Always follow the label instructions when handling this product.

(EXPOSURE CONTROLS/PERSONAL PROTECTION - Continued)

Applicators and other handlers must wear:

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

Follow manufacturer's instructions for cleaning and 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 made of any waterproof material, such as polyethylene or polyvinylchloride.
- Shoes plus socks.

Exposure Guidelines

Applicable Exposure Limits

SULFOMETURON METHYL

PEL (OSHA)	: None Established
TLV (ACGIH)	: 5 mg/m ³ , 8 Hr. TWA, A4
AEL * (Agsurf)	: 10 mg/m ³ , 8 & 12 Hr. TWA total dust

METSULFURON METHYL

PEL (OSHA)	: None Established
TLV (ACGIH)	: None Established
AEL * (Agsurf)	: 10 mg/m ³ , 8 & 12 Hr. TWA

* 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

Form	: Solid, Dispersible Granules.
Odor	: (slight).
Color	: (light), Brown.
pH	: 7.2
Density	: 0.67 g/mL

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

None reasonably foreseeable.

Decomposition

Decomposition will not occur.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

SULFOMETURON METHYL

Inhalation 4 hour LC50: > 5.3 mg/L in rats
(Very low toxicity by inhalation)
Skin absorption LD50: > 5000 mg/kg in rabbits
(Slightly to moderately toxic by contact)
Oral LD50: > 5000 mg/kg in rats
(Very low toxicity by ingestion)

SULFOMETURON METHYL is a slight to mild skin irritant, and a mild eye irritant, but is not a skin sensitizer in animals.

Single inhalation exposure with SULFOMETURON METHYL in rats caused slight to moderate body weight loss, nasal and ocular discharge, and other nonspecific effects.

Single high oral doses of SULFOMETURON METHYL produced no clinical signs of toxicity and no lesions were observed during pathological examination of tissue.

Repeated oral studies with the active ingredient, SULFOMETURON METHYL, caused decreased body weight gain, liver changes, red blood cell hemolysis, and altered white blood cell counts. Long-term exposure caused mild hemolytic anemia, decreased body weight, alteration of clinical chemical parameters, and changes in the bile duct.

Animal testing indicates that the active ingredient, SULFOMETURON METHYL, does not have carcinogenic effects. In a two generation rat reproduction study with the active ingredient, SULFOMETURON METHYL, decreased numbers of pups were observed at the 5000 ppm level, a dose that was also maternally toxic. No reproductive effects were observed at 500 ppm.

(TOXICOLOGICAL INFORMATION - Continued)

SULFOMETURON METHYL did not produce developmental toxicity when tested in animals. SULFOMETURON METHYL did not produce genetic damage in bacterial or mammalian cell cultures.

METSULFURON METHYL

Oral LD50: > 5000 mg/kg in rats
(Very low toxicity)
Skin LD50: > 2000 mg/kg in rabbits
(Slight to moderate toxicity)

METSULFURON METHYL is a slight eye irritant, but is not a skin irritant or skin sensitizer in animal tests.

METSULFURON METHYL

Inhalation LC50, 4 hr: > 5.3 mg/L in rats
(Very low toxicity)

Single exposures of animals to METSULFURON METHYL by inhalation caused body weight loss and other nonspecific effects.

Repeated applications of METSULFURON METHYL to the skin of rabbits caused skin irritation but no other changes were observed.

Repeated oral doses of METSULFURON METHYL produced decreased body weight gain and decreased liver weights when compared to the control group. Long term administration caused body weight loss.

Animal testing indicates that METSULFURON METHYL does not have carcinogenic, developmental, or reproductive effects.

There is a report indicating that METSULFURON METHYL produced genetic damage in a mammalian cell culture test; however, other tests with METSULFURON METHYL in bacterial and mammalian cell cultures and in animals did not produce genetic damage. The weight of evidence suggests that METSULFURON METHYL does not cause genetic damage.

ECOLOGICAL INFORMATION

Ecotoxicological Information

AQUATIC TOXICITY:

SULFOMETURON METHYL

48 hour NOEC - Daphnia magna: > 150 mg/L.
96 hour LC50 - Rainbow trout: > 148 mg/L.
96 hour LC50 - Bluegill sunfish: > 150 mg/L.

AVIAN TOXICITY:

SULFOMETURON METHYL

Acute Dietary LC50 - Mallard Duck: > 5000 ppm.
Acute Dietary LC50 - Bobwhite Quail: > 5620 ppm.

(ECOLOGICAL INFORMATION - Continued)

AQUATIC TOXICITY:

METSULFURON METHYL

96 hour LC50 - Rainbow trout: > 150 ppm.

96 hour LC50 - Bluegill sunfish: > 150 ppm.

AVIAN TOXICITY:

METSULFURON METHYL

LD50 - Mallard Duck: > 2510 mg/kg.

LC50 - Bobwhite Quail: > 5620 mg/kg

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and local regulations.

Do not contaminate water supply, 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

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

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 Fiber Sacks: Completely empty fiber sack by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into manufacturing or application equipment. Then dispose of sack in a sanitary landfill or by incineration if allowed by State and local authorities.

For Fiber Drums with Liners: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

For Paper and Plastic Bags: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, if allowed by State

(DISPOSAL CONSIDERATIONS - Continued)

and local authorities, by burning. If burned, stay out of smoke.

Container Refilling and Disposal (For Containers up to 250 gal): Refer to the product label. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product.

Container Disposal for Bulk Containers: Refer to the product label. The container must only be refilled with this pesticide product. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Do not transport if the container is damaged or leaking. Disposal of the container must be in compliance with State and local regulations.

For minor spills, leaks, etc., follow all precautions indicated on the product 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
Pressure : 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. 352-622-85588

OTHER INFORMATION

NFPA, NPCA-HMIS

NFPA Rating
Health : 1
Flammability : 1
Reactivity : 0

NPCA-HMIS Rating
Health : 1
Flammability : 1
Reactivity : 0

Personal Protection rating to be supplied by user depending on use conditions.

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, Delaware 19801
: www.agsurf.com

Indicates updated section.

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