

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

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AGSURF "CHLORMET" HERBICIDE  
AGSURF0001 Revised 01-SEP-2008  
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CHEMICAL PRODUCT/COMPANY IDENTIFICATION  
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Material Identification

"Chlormet" is a trademark of Agsurf Corporation.

"Agsurf" is a trademark of Agsurf Corporation.

Tradenames and Synonyms

"CHLORMET" HERBICIDE  
"CHLORMET"

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

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COMPOSITION/INFORMATION ON INGREDIENTS  
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Components

Material	CAS Number	%
*CHLORSULFURON (2-CHLORO-N[(4-METHOXY-6-METHYL-1,3,5-TRIAZIN-2-YL)AMINOCARBONYL]BENZENESULFONAMIDE)	64902-72-3	62.5
METSULFURON METHYL (METHYL 2-[[[(4-METHOXY-6-METHYL-1,3,5-TRIAZIN-2-YL)AMINO]CARBONYL]AMINO]SULFONYL]-BENZOATE)	74223-64-6	12.5
INERT INGREDIENTS		25

\* Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

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HAZARDS IDENTIFICATION  
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## Emergency Overview

CAUTION! Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Avoid breathing dust or spray mist.

## Potential Health Effects

## ANIMAL DATA:

Acute oral LD50 (rat): greater than 5,000 mg/kg.

Acute dermal LD50 (rabbit): greater than 2,000 mg/kg.

Skin irritation (rabbit) and sensitization (guinea pig): tests produced mild skin irritation; but product is not considered a primary skin irritant nor a sensitizer.

Eye irritation (rabbit): formulation produced slight or moderate corneal opacity, moderate iritis, mild or moderate conjunctival redness and slight to moderate chemosis. Considered a moderate eye irritant.

## CHRONIC STUDIES: (Active Ingredients)

Feeding Studies: No observable effects for either active ingredient in long term studies with rats and mice.

Terogenicity: Not teratogenic in studies with rats and rabbits.

Reproduction: No reproductive effects were observed in studies with rats.

MUTAGENICITY: (Chlorsulfuron) Not mutagenic in Ames bacterial assay, Chinese Hamster ovary mammalian cell assay, rat dominant lethal assay, in vitro cytogenetic assay, or DNA repair assay. (Metsulfuron methyl) Not mutagenic in Ames bacterial assay, Chinese Ovary Cell assay; positive in the in vitro Chinese Hamster Ovary cell cytogenetic assay but negative in the in vivo rat bone marrow cytogenetic assay.

## HUMAN HEALTH EFFECTS OF OVEREXPOSURE (BY COMPONENTS)

Overexposure to chlorsulfuron by eye contact may initially include eye irritation with discomfort, tearing, or blurring of vision. Otherwise no acceptable information is available to confidently predict the effects of excessive human exposure to this compound.

Overexposure to metsulfuron methyl by eye contact may initially include eye irritation with discomfort, tearing,

## (HAZARDS IDENTIFICATION - Continued)

or blurring of vision. Repeated dermal exposures may cause skin irritation with discomfort or rash.

## 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.

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FIRST AID MEASURES  
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## First Aid

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.

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.

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FIRE FIGHTING MEASURES  
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## Flammable Properties

Flammable limits in Air, % by Volume  
LEL : 0.212 g/L  
Autoignition : 445 C (833 F)

May be ignited by heat or open flame.

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. Use water spray. Runoff from fire control may be a pollution hazard.

## (FIRE FIGHTING MEASURES - Continued)

If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the contamination area.

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ACCIDENTAL RELEASE MEASURES  
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## Safeguards (Personnel)

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

## Initial Containment

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

## Spill Clean Up

Shovel or sweep up.

## Accidental Release Measures

If spill area is on ground near trees or other valuable plants, remove top 2 inches of soil after initial cleanup.

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HANDLING AND STORAGE  
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## Handling (Personnel)

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

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

## Storage

Store in a well ventilated place. Keep container tightly closed. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

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EXPOSURE CONTROLS/PERSONAL PROTECTION  
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## Engineering Controls

Use only with adequate ventilation. Keep container tightly closed.

## Personal Protective Equipment

Some materials that are chemical resistant to this product are listed below. If you want more options follow the instructions for Category A on the EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.

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

Shoes plus socks.

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) all equal to or greater than 14 mls.

Shoes plus socks

## Exposure Guidelines

## Applicable Exposure Limits

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

## (Applicable Exposure Limits - Continued)

## METSULFURON METHYL

PEL (OSHA) : None Established  
TLV (ACGIH) : None Established  
AEL \* (Agsurf) : 10 mg/m<sup>3</sup>, 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.

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PHYSICAL AND CHEMICAL PROPERTIES  
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## Physical Data

Solubility in Water : Dispersible  
Odor : Odorless  
Form : Solid  
Color : Off-white

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STABILITY AND REACTIVITY  
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## Chemical Stability

Stable at normal temperatures and storage conditions.

## Incompatibility with Other Materials

None reasonably foreseeable.

## Polymerization

Polymerization will not occur.

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DISPOSAL CONSIDERATIONS  
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## Waste Disposal

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

## 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 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

## (DISPOSAL CONSIDERATIONS - Continued)

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 liners 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 Bags Containing Water Soluble Packets: Do not reuse the outer box or the resealable plastic bag. When all water-soluble packets are used, the outer packaging should be clean and may be disposed of in a sanitary landfill or by incineration, or if allowed by State and local authorities, by open burning. If burned, stay out of smoke. If the resealable plastic bag contacts the formulated product in any way, the bag must be triple rinsed with clean water. Add the rinsate to the spray tank and dispose of the outer wrap as described above.

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 the State and local authorities.

For Paper and Plastic Bags: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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TRANSPORTATION INFORMATION  
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## Shipping Information

DOT/IMO  
Proper Shipping Name : Not Regulated

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REGULATORY INFORMATION  
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## U.S. Federal Regulations

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

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

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OTHER INFORMATION  
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## 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.

## Additional Information

This product is registered under EPA/FIFRA regulations.

EPA Reg. No. 352-445-85588

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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  
Wilmington, DE 19801  
: [www.agsurf.com](http://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