

# Material Safety Data Sheet

*Agsurf Corporation*

## **T-PAC™ XP Herbicide**

Version 1.0

Revision Date 08/04/2014

Ref. AGSURF0020

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	T-Pac XP herbicide
Tradename/Synonym	:	T-Pac XP THIFENSULFURON METHYL: (Methyl 3-[[[(4-methoxy-6-methyl-1,3,5- triazin-2-yl)amino]carbonyl]amino] sulfonyl]-2-thiophenecarboxylate) TRIBENURON METHYL: (Methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)methylamino]carbonyl]- amino]sulfonyl] benzoate)
MSDS Number	:	AGSURF0020
Product Use	:	Herbicide
Distributor	:	Agsurf Corporation 1209 Orange Street Wilmington, DE 19801
Product Information	:	1-888-261-1410
Medical Emergency	:	1-888-261-1410
Transport Emergency	:	CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)

### **SECTION 2. HAZARDS IDENTIFICATION**

#### Emergency Overview

##### Caution

Causes moderate eye irritation. Avoid contact with skin, eyes and clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

#### Potential Health Effects

This section includes potential acute adverse effects which could occur if this material is not used according to the label.

# Material Safety Data Sheet

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## **T-PAC™ XP Herbicide**

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Ref. AGSURF0020

Skin : May cause: Irritation with discomfort or rash.

Eyes : May cause: Irritation with discomfort, pain, redness, or visual impairment.

Carcinogenicity  
Material

IARC

NTP

OSHA

Titanium dioxide

2B

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No.	Concentration
Tribenuron methyl	101200-48-0	37.5 %
Thifensulfuron methyl	79277-27-3	37.5 %
Other Ingredients		25 %

Present as an impurity in the clay component of this product:

Titanium Dioxide		<1 %
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### **SECTION 4. FIRST AID MEASURES**

- |                |   |  |
|----------------|---|--|
| Skin contact   | : | Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.  |
| Eye contact    | : | 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.  |
| Inhalation     | : | No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.   |
| Ingestion      | : | No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.   |
| General advice | : | Have the product container or label with you when calling a poison control center or doctor, or going for treatment.<br>For medical emergencies involving this product, call toll free 1-888-261-1410.<br>See Label for Additional Precautions and Directions for Use. |

### **SECTION 5. FIREFIGHTING MEASURES**

- |                                |   |  |
|--------------------------------|---|--|
| Flammable Properties           |   |  |
| Flash point                    | : | Not applicable   |
| Suitable extinguishing media   | : | Water spray, Foam, Dry chemical, Carbon dioxide (CO2)  |
| Unsuitable extinguishing media | : | High volume water jet, (contamination risk)  |
| Firefighting Instructions      | : | Wear full protective clothing and self-contained breathing apparatus. (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray. |

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Revision Date 08/04/2014

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### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

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

- |                             |   |
|-----------------------------|---|
| Safeguards (Personnel)      | : Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Use personal protective equipment.   |
| Spill Cleanup               | : Sweep up and shovel into suitable containers for disposal.  |
| Accidental Release Measures | : Prevent material from entering sewers, waterways, or low areas. Never return spills in original containers for re-use. Dispose of in accordance with local regulations. |

### **SECTION 7. HANDLING AND STORAGE**

- |                             |   |
|-----------------------------|---|
| Handling (Personnel)        | : Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. |
| Handling (Physical Aspects) | : Keep away from heat and sources of ignition.  |
| Storage                     | : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Store in a cool, dry place. Keep out of the reach of children.  |

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- |                               |   |
|-------------------------------|---|
| Personal protective equipment |   |
| Skin and body protection      | : Applicators and other handlers must wear:<br>Long sleeved shirt and long pants<br>Chemical resistant gloves made of any waterproof material<br>Shoes plus socks |

# Material Safety Data Sheet

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## **T-PAC™ XP Herbicide**

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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

Shoes plus socks

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

### Exposure Guidelines Exposure Limit Values

Tribenuron methyl

AEL *	(AGSURF)	0.5 mg/m3	12 hr. TWA
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AEL *	(AGSURF)	1 mg/m3	8 hr. TWA
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Thifensulfuron methyl

AEL *	(AGSURF)	5 mg/m3	8 & 12 hr. TWA Total dust.
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Titanium dioxide

Permissible exposure limit:	(OSHA)	15 mg/m3	8 hr. TWA Total dust.
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TLV	(ACGIH)	10 mg/m3	TWA
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AEL *	(AGSURF)	10 mg/m3	8 & 12 hr. TWA Total dust.
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AEL *	( AGSURF)	5 mg/m3	8 & 12 hr. TWA Respirable dust.
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\* 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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### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Form	: solid, extruded granules
Color	: light brown
Odor	: slight
pH	: 5.6 - 6.2
Bulk density	: 0.66 - 0.72 g/cm <sup>3</sup>
Water solubility	: soluble

### **SECTION 10. STABILITY AND REACTIVITY**

Stability	: Stable at normal temperatures and storage conditions.
Incompatibility	: No materials to be especially mentioned.
Hazardous decomposition products	: Decomposes slowly on exposure to water.

### **SECTION 11. TOXICOLOGICAL INFORMATION**

T-Pac™ XP Herbicide	
Inhalation 4 h LC50	: > 5.3 mg/l , Rat
Dermal LD50	: > 5,000 mg/kg , Rabbit
Oral LD50	: > 5,000 mg/kg , Rat
Skin irritation	: slight irritation, Rabbit
Eye irritation	: Moderate eye irritation, Rat
Sensitization	: Animal test did not cause sensitization by skin contact, Guinea pig
Further information	: Information given is based on data on the components and the toxicology of similar products.

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Revision Date 08/04/2014

Ref. AGSURF0020

### Tribenuron methyl

#### Repeated dose toxicity

: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Oral - feed

Mouse

90 d

Reduced body weight gain

Oral

Rat

28 d

Reduced body weight gain

#### Carcinogenicity

: Not classifiable as a human carcinogen.  
An increased incidence of tumors was observed in laboratory animals.  
Target(s):  
Mammary glands

#### Mutagenicity

: Animal testing did not show any mutagenic effects.  
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

#### Reproductive toxicity

: No toxicity to reproduction

### Thifensulfuron methyl

#### Repeated dose toxicity

: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Oral - feed

multiple species

Reduced body weight gain

#### Carcinogenicity

: Animal testing did not show any carcinogenic effects.

#### Mutagenicity

: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.  
Animal testing did not show any mutagenic effects.

#### Reproductive toxicity

: No toxicity to reproduction  
Animal testing showed no reproductive toxicity.

# Material Safety Data Sheet

*Agsurf Corporation*

## **T-PAC™ XP Herbicide**

Version 1.0

Revision Date 08/04/2014

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Teratogenicity : Did not show teratogenic effects in animal experiments.  
Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Titanium Dioxide  
Carcinogenicity : Based upon all available study results, Agsurf scientists conclude that titanium dioxide will not cause lung cancer or chronic respiratory diseases in humans at concentrations experienced in the workplace.

### **SECTION 12. ECOLOGICAL INFORMATION**

Aquatic Toxicity  
Tribenuron methyl  
96 h LC50 : Oncorhynchus mykiss (rainbow trout) 738 mg/l  
120 h EC50 : Pseudokirchneriella subcapitata (microalgae) 0.0208 mg/l  
14 d EC50 : Lemna gibba (duckweed) 0.00424 mg/l  
48 h EC50 : Daphnia magna (Water flea) > 894 mg/l  
Thifensulfuron methyl  
96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 100 mg/l  
14 d EC50 : Lemna minor (duckweed) 0.0013 mg/l  
48 h EC50 : Daphnia magna (Water flea) 470 mg/l  
Additional ecological information : Environmental Hazards: 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 cleaning equipment or disposing of equipment washwaters or rinsate.

### **SECTION 13. DISPOSAL CONSIDERATIONS**

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



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Version 1.0

Revision Date 08/04/2014

Ref. AGSURF0020

Container Disposal : Container Refilling and Disposal:  
Refer to the product label for instructions.

### **SECTION 14. TRANSPORT INFORMATION**

IATA_C	UN number	: 3077
	Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Thifensulfuron-methyl, Tribenuron methyl)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9MI
IMDG	UN number	: 3077
	Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thifensulfuron-methyl, Tribenuron methyl)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9
	Marine pollutant	: yes (Thifensulfuron-methyl, Tribenuron methyl)

Not regulated as a hazardous material by DOT.

### **SECTION 15. REGULATORY INFORMATION**

SARA 313 Regulated Chemical(s) : Tribenuron methyl

EPA Reg. No. : 352-617-85588  
In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.

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California Prop. 65 : WARNING! This product contains a chemical or chemicals known to the State of California to cause cancer.

PA Right to Know : Substances on the Pennsylvania Hazardous Substances List present at  
Regulated Chemical(s) a concentration of 1% or more (0.01% for Special Hazardous Substances): Kaolin

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### **SECTION 16. OTHER INFORMATION**

Take notice of the directions of use on the label.

Before use read Agsurf's safety information.

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Contact person : Agsurf Corporation  
1209 Orange Street  
Wilmington, DE, 19801  
[www.agsurf.com](http://www.agsurf.com)  
Phone: 1-888-261-1410

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