

# MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

SPHINX

|                     |                      |
|---------------------|----------------------|
| Date of Preparation | 27/07/2015           |
| Date of Issue       | 27/07/2015           |
| MSDS No             | FORM_MSDS_R&D_220_00 |
| Renewal Date/No     |                      |

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PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

## 1. MATERIAL/PREPARATION AND COMPANY/OWNER IDENTIFICATION:

### 1.1 Material/Preparation Identification:

**Product Name** : SPHINX  
**Product Content** : % 75Tribenuron-methyl  
**Formulation Form** : Dry Flowable (DF)

#### Tribenuron-methyl

**Cas No** :101200-48-0  
**EC No** :401-190-1  
**HRAC** :B WSSA 2 sulfonylurea

### 1.2 Usage of the Material/Preparation:

Herbicide

### 1.3 Company Identification:

#### **Manufacturing and License Holding Company:**

**Company Name** : AGRI SCIENCES TARIM VE ILAC UR. SAN. TIC. LTD. STI.  
**Address** : Bekir Saydam Caddesi Pancar No: 31 Torbali / IZMIR  
**Telephone** : +90 0232 864 13 33  
**Fax** : +90 0232 864 16 79

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## 1.4 Emergency Contact Telephone:

Please call +90 0232 864 13 33 and Emergency and National Poison Center 114.

## 2. COMPOSITION AND INFORMATION ON INGREDIENTS

| Material          | %  | CAS No      | EINECS/ELINCS | Hazard | R <sup>1</sup> | Classification     |
|-------------------|--|-------------|---------------|--------|----------------|--------------------|
| Tribenuron-methyl | 75   | 101200-48-0 | 401-190-1     | Xi, N  | R43,<br>R50/53 | Xi;R43<br>N;R50/53 |
| Others *          | Out of classification due to the fact that it does not include hazardous material. |             |               |        |                |                    |

- <sup>1</sup> R explanations are under section 16.

## 3. HAZARD IDENTIFICATION



**Xi: Irritant**



**N: DANGEROUS FOR THE ENVIRONMENT**

R43 - May cause sensitization by skin contact.

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R 50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 4. FIRST AID MEASURES

**General Suggestion:** In case of emergency, call a doctor; take the pesticide label with you.

**Eye Contact:** Wash eyes with plenty of water for 15 min. Consult an eye specialist.

**Skin contact:** Wash off with soap and water.

**If inhaled:** Move patient to fresh and well-ventilated area, call a doctor.

**If swallowed:** If patient is not unconscious, the mouth should be rinsed. Do not give anything oral.

#### 5. FIRE FIGHTING MEASURES

**Suggestion for the fire department:** Use full mask with oxygen tube if required.

**Hazards:** Formation of dangerous gases as carbon oxides (COx), nitrogen oxides (NOx) and sulfur oxides is taken into account in case of fire.

**Fire extinguishers:** Water mist, foam, carbondioxide, extinguishing powder.

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### 6. ACCIDENTAL RELEASE MEASURES

**Personal Alerts:** Use personal protective equipments specified in section 8.

Avoid contact with spilled product or contaminated areas. Do not eat, drink or smoke when dealing with spilled product. Avoid from dust formation.

**Environmental Precautions:** If there is no safety hazard, avoid the leakage. The remaining amount of waste must not poured to sewage canal.

**The Cleaning Process:** Absorb with an appropriate absorbent. Fill the disposal into suitable containers.

**Additional Precautions:** Refer to Section 7 for safe handling instructions. Refer to Section 8 for personal protections equipment. Refer to Section 13 for disposal.

### 7. HANDLING AND STORAGE

**Handling:** Use the personal protective equipment stated in Section 8. Do not eat or drink while using. Prevent the contact with mouth, skin and eyes. Do not inhale. Wash your hands after using. Other security precautions are not required except of stated warnings during using the closed package. Use only in rooms, in which there is a locally aspirated device.

**Storage:** Store in the original container in dry, cool and well-ventilated places.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Precautions:** Ensure appropriate general or local ventilation to keep the product concentration under allowed limits.

#### **Personal Protection Equipment:**

**Eye** : Use eye protection equipment compliant with EN 166.

**Skin** : Use protective clothing and appropriate gloves. Use 2 layers of clothing, if possible. Use CE marked Nitrile Rubber (min. 0.40 mm thick). Contaminated gloves should be washed. Any gloves that cannot be cleaned inside and outside should be disposed.

**Respiratory** : Use respiratory apparatus compliant with EN 149:2001. Any respiratory protection apparatus should only be used for short term operations, as a part of risk minimization measures, e.g. in case of local ventilation. Comply with operation instructions and warnings of the manufacturer during use of respiratory protection apparatuses.

**Hygiene Measures:** Do not eat, drink or smoke while handling the product. Wash your hands each time before eating, drinking, smoking or going to the toilet

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                |  |
|----------------|--|
| <b>Form</b>    | : Solid, granule                                 |
| <b>Color</b>   | : Beige-brown                                    |
| <b>Odor</b>    | : Characteristic                                 |
| <b>pH</b>      | : 7.8 ±11% (20 <sup>0</sup> C)                   |
| <b>Density</b> | : 0.65±0.05g/cm <sup>3</sup> (20 <sup>0</sup> C) |

## 10. STABILITY AND REACTIVITY

**Conditions to be avoided:** Extreme temperatures and direct sun light.

**Materials to be avoided:** Strong oxidizing agent

## 11. TOXICOLOGICAL INFORMATION

### **Tribenuron-methyl Technical Material:**

**Oral** Acute oral LD<sub>50</sub> for rats >5000 mg/kg.

**Skin and eye** Acute percutaneous LD<sub>50</sub> for rabbits >5000 mg/kg. Non-irritating to skin and eyes (rabbits). Mildly sensitising to skin (guinea pig maximisation test), but not likely to be a dermal sensitisation risk to humans.

**Inhalation** LC<sub>50</sub> (4 h) for rats >5.0 mg/l air.

**NOEL** (2 y) for rats 25 ppm diet; (18 mo) for mice 200 ppm diet (25 mg/kg b.w. daily); (1 y) for dogs 250 ppm diet (8.2 mg/kg b.w. daily); (90 d) for rats 100, for mice 500, for dogs 500 mg/kg diet.

**ADI/RfD** (EC) 0.01 mg/kg b.w. [2005]; (EPA) cRfD 0.008 mg/kg b.w. [1990]. **Other** Not genotoxic.

**Toxicity Class** WHO (a.i.) U; EPA (formulation) III

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### 12. ECOLOGICAL INFORMATION

#### **Tribenuron-methyl Technical Material:**

**Birds** Acute oral LD<sub>50</sub> for bobwhite quail >2250 mg/kg. Dietary LC<sub>50</sub> (8 d) for bobwhite quail and mallard ducks >5620 mg/kg.

**Fish** LC<sub>50</sub> (96 h) for rainbow trout 738 mg/l.

**Daphnia** LC<sub>50</sub> (48 h) 894 mg/l.

**Algae** EC<sub>50</sub> (120 h) for green algae 20.8 µg/l.

**Other aquatic spp.** EC<sub>50</sub> (14 d) for *Lemna* 4.24 µg/l.

**Bees** LD<sub>50</sub> for honeybees (contact) >100 µg/bee; (oral) >9.1 µg/bee.

**Worms** LC<sub>50</sub> for earthworms >1000 mg/kg.

### 13. DISPOSAL INFORMATION

**Product:** Hazardous waste that cannot be recovered should be disposed of according to control regulation. Agree with one of the waste disposal firm. Solve the material with a combustible solvent or mixed with this solvent and burn in a combustion furnace.

**Contaminated Packing:** Dispose the waste as an uncontaminated packaging.

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## 14. TRANSPORTATION INFORMATION

### ADR/RID/ADNR

UN-No. :3077

Hazard Mark : 9

Packing Group : III

Product type : UN 3077 Environmental hazardous substance, solid, N.O.S.  
(CONTAINS TRIBENURON-METHYL)



### IMDG

UN-No. : 3077

Class : 9

Packing Group : III

Marine Pollutant : Yes

Product type : UN 3077 Environmental hazardous substance, solid, N.O.S.  
(CONTAINS TRIBENURON-METHYL)

### IATA

UN-No. : 3077

Class : 9

Packing Group : III

Product type : UN 3077 Environmental hazardous substance, solid, N.O.S.  
(CONTAINS TRIBENURON-METHYL)



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## 15. REGULATORY INFORMATION

This data sheet is prepared based on regulation on preparation and distribution of safety data sheets about hazardous materials and preparations (O.G. issue no 27092 dated 26/12/2008).

### Hazard Marks and Symbols:



**Xi: Irritant**



**N: Dangerous For The Environment**

### Hazardous Materials Listed on the Label:

Includes Tribenuron-methyl.

### Risk Phrases:

### Physicochemical:

### Health:

R43 - May cause sensitization by skin contact.

### Environment:

R 50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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**Safety Phrases:**

S1/2 - Lock it up and keep out of the reach of children.

S 24 - Avoid contact with skin

S 29 - Do not empty into drains

S 36/37 - Wear suitable protective clothing and gloves.

S 46 - If swallowed, seek medical advice immediately and show this container or label

S 56 - Dispose of this material and its container to hazardous or special waste collection point

**Important Labeling :**

To avoid from risks to man and environment, comply with the instruction of use.

**16. OTHER INFORMATION**

**N:** Dangerous For The Environment

**Xi:** Irritant

**All Risk Phrases under Section 2:**

R43 - May cause sensitization by skin contact.

R 50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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**Prepared By** : Remzican KARAN

This material safety data sheet is provided as a supplement to instructions of manufacturer; however it does not replace instructions of manufacturer. The information provided in this sheet only conforms to the regulatory criteria known at the time of the preparation of Safety Data Sheet. Required data are gathered in accord with "Regulation on Preparation and Distribution of Safety Data Sheets about Hazardous Materials and preparations (O.G. issue no 27092 dated 26/12/2008)". Concerned organizations and persons are invited to comply with the abovementioned regulation.