



**SAFETY DATA SHEET**

**TWISTER 75 WG**

Version 1.1/Isr/GHS

Issue date: 05.10.2018

**SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**Product identifiers**

Product name: TWISTER 75 WG  
Substance name: contains Sulfometuron-methyl  
CAS No: 74222-97-2

**Relevant identified uses of the substance or mixture and uses advised against**

Identified uses: Raw material for pesticide production

**Details of the supplier of the safety data sheet**

Supplier: Almandine Corporation SA  
Gotthardstrasse 3  
6300 Zug  
Switzerland  
Tel: +44 20 8995 8391 (UK office)  
Fax: +44 20 8995 7639  
Email: [almuk@almandine.com](mailto:almuk@almandine.com)  
Formulation site: Jiangsu Institute of Ecomones Ltd  
Jintan, Jiangsu, China

**Emergency telephone number**

Tel: +44 20 8995 8391 (SDS support, 9.00-5.00 pm; Mon-Fri only, UK)

**SECTION 2. HAZARDS IDENTIFICATION**

Skin irrit. 2  
Eye irrit. 2  
Aq Acute 1  
Aq Chronic 1

**Classification and Label Elements:**



**Pictogram(s):**

**Signal word:** Warning

**Hazard statement(s):**  
H315: Causes skin irritation  
H319: Causes serious eye irritation  
H400: Very toxic to aquatic life  
H410: Very toxic to aquatic life with long lasting effects

**Precautionary statement(s):**

P264: Wash hands thoroughly after handling  
P270: Do not eat, drink or smoke when using this product  
P273: Avoid release to the environment  
P302+P352: IF ON SKIN: Wash with plenty of water  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.



P501: Dispose of contents/container in accordance with local and national regulations

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

Name	CAS No	Conc (%)	Signal word	H Statement(s)
Sulfometuron-methyl	74222-97-2	75	Warning	H319, H400, H410
2-Naphthalenesulfonate, Na salt	Trade secret	<10	Warning	H315, H319

**SECTION 4. FIRST AID MEASURES**

If poisoning occurs, immediately contact a doctor or Poisons Information Centre and follow the advice given. Show this Safety Data Sheet to the doctor.

**Inhalation:** If inhaled, remove person to fresh air and keep comfortable for breathing, keep warm and at rest.

**Skin contact:** If on skin: take off immediately all contaminated clothing. Rinse skin with water/shower.

**Eye contact:** If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

**Ingestion:** If swallowed, rinse mouth immediately with water. Do not induce vomiting unless told to do so by a poison control centre or doctor. Never induce vomiting or give anything by mouth if the patient is unconscious or having convulsions.

**Medical Advice:** Observe the patient and treat symptomatically, no known specific antidote.

**SECTION 5. FIRE FIGHTING MEASURES**

**Extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Under fire conditions:** Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides.

**Protective equipment:** A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Wear PPE as recommended in section 8. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

**Environmental precautions:** Prevent product from entering drains.

**Clean-up methods:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Wash the spillage area with water and adsorb onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Contaminated extinguishing water must be disposed of in accordance with official regulations.



## SECTION 7. HANDLING AND STORAGE

- Handling:** Avoid contact with skin and eyes. Avoid inhaling dust/ vapours. Ensure adequate ventilation and provide appropriate exhaust ventilation at places where dust is formed. When using, do not eat, drink or smoke.
- Storage:** Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a cool, dry and well-ventilated place.

## SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Components with Workplace exposure controls:**  
Contains no substances with occupational exposure limit values.

### Personal protective equipment

- Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Inhalation:** Where risk assessment shows air-purifying respirators are appropriate use type P1 (EN 143) particle respirator. For higher level protection use type ABEK-P2 (EN 143) respirator cartridges as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## SECTION 9. PHYSICAL / CHEMICAL PROPERTIES

- |  |  |
|--|--|
| a) Appearance:                                   | Off-white extruded granules                                      |
| b) Odour:  | very faint   |
| c) Odour threshold:                              | none set   |
| d) pH:   | 6.0 – 7.0 (1% dilution)  |
| e) Melting point/freezing point:                 | 204°C (tech)   |
| f) Boiling point/boiling range:                  | Decomposes before boiling  |
| g) Flash-point:                                  | Does not flash   |
| h) Evaporation rate:                             | Not determined   |
| i) Flammability (solid/gas):                     | Not flammable  |
| j) Upper/lower flammability or explosive limits: | not relevant   |
| k) Vapour pressure:                              | $7.3 \times 10^{-11}$ mPa (tech)                                 |
| l) Vapour density:                               | $1.1 \times 10^{-18}$ Pa m <sup>3</sup> mol <sup>-1</sup> (tech) |
| m) Relative density:                             | 0.6-0.7 g/mL (bulk density)                                      |
| n) Solubility:                                   | 244 mg/l (water, 20°C, tech)                                     |



- |                               |                                  |
|-------------------------------|----------------------------------|
| o) Partition coefficient:     | Log P <sub>ow</sub> -0.51 (tech) |
| p) Auto-ignition temperature: | not determined                   |
| q) Decomposition temperature: | not determined                   |
| r) Viscosity:                 | not relevant (solid)             |
| s) Explosive properties:      | Not explosive                    |
| t) Oxidising properties:      | Not an oxidiser                  |

## SECTION 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Corrosion to metals: Corrosive effects to metal are not anticipated.
<b>Chemical stability</b>	This product is stable if stored and handled as prescribed/indicated.
<b>Possibility of hazardous reactions</b>	No hazardous reactions when stored and handled according to instructions.
<b>Conditions to avoid</b>	No specific conditions
<b>Incompatible materials</b>	Strong oxidising agents
<b>Hazardous decomposition products</b>	No hazardous decomposition products if stored and handled as prescribed/indicated.

## SECTION 11. TOXICOLOGICAL INFORMATION

<b>Oral toxicity:</b>	LD <sub>50</sub> rat:	>2000-5000 mg/kg (GHS cat 5)
<b>Dermal toxicity:</b>	LD <sub>50</sub> rat:	>2000-5000 mg/kg (GHS cat 5)
<b>Inhalation toxicity:</b>	LC <sub>50</sub> 4h rat	>5 mg/L
<b>Skin irritation:</b>	Causes skin irritation	
<b>Eye irritation:</b>	Causes eye irritation	
<b>Skin sensitisation:</b>	Not a skin sensitiser	

Not carcinogenic, mutagenic or teratogenic.

## SECTION 12. ECOLOGICAL INFORMATION

<b>Fish toxicity:</b>	LC <sub>50</sub> 96 h rainbow trout	>100 mg/L
<b>Daphnia toxicity:</b>	EC <sub>50</sub> 48 h <i>Daphnia magna</i>	>100 mg/L
<b>Algal toxicity:</b>	EC <sub>50</sub> Green algae 5 d	0.005 mg/L
Other		
	LC <sub>50</sub> <i>Lemna gibba</i> (7 day)	0.48 µg/L
	NOEC <i>Lemna gibba</i> (14 day)	0.21 µg/L

Sulfometuron-methyl is moderately mobile in the environment but rapidly degrades via microbial action, photodegradation and hydrolysis. Under acidic, moist and warmer temperatures, degradation is faster. The photolysis half-life is 1-2 weeks.

This substance/mixture contains no components considered to be either persistent, bioaccumulative or toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 13. DISPOSAL CONSIDERATIONS

Do not contaminate ponds, waterways or ditches with chemical or used containers. Empty containers should be washed and discarded. Empty containers should not be used for other purposes. Disposal should be in accordance with local, state or national legislation.



**SECTION 14. TRANSPORTATION INFORMATION**

**UN number:** 3077

**UN Proper Shipping Name:** Environmentally hazardous substance, N.O.S  
(contains sulfometuron-methyl)

**Transport hazard class:** ADR/RID: 9      IMDG: 9      IATA: 9

**Packaging group:** ADR/RID: III      IMDG: III      IATA: III

**Environmental hazard:** ADR/RID: Yes      IMDG: Marine pollutant: Yes      IATA: Yes

**SECTION 15. REGULATORY INFORMATION**

No additional regulatory information required for this product.

**SECTION 16. OTHER INFORMATION**

H Statements in full:

H315: Causes skin irritation

H319: Causes serious eye irritation

H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

No liability is accepted for any injury, loss, damage or cost arising directly or indirectly from the use of the product or from the use of information contained within the safety data sheet, since the customer's treatment of the product is necessarily beyond our control. The supplied data are based on current knowledge and experience. This safety data sheet is intended to describe our product in terms of safety requirements. The customer should determine by appropriate trials that the product is suitable for its intended use.

Sections 9, 11 and 12 based on available EU and own data  
Self-classification