

## SAFETY DATA SHEET (SDS)

TITLE: **FLUBENDIAMIDE 480 SC**

### 1.0 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING

#### Product Identifier

Identification on the label / Trade name : AG FLUBENDIAMIDE 480 SC  
Common Name : Flubendiamide 480 g/l SC  
CAS No. : 272451-65-7  
EC No. : N/A  
REACH registration No. : N/A

#### Relevant identified uses of the substance and uses advised against:

#### Agricultural Pesticide

#### Details of the Manufacturer / Supplier of the safety data sheet:

Supplier : AGROMECC SARL  
P.O.Box: 462  
Jounieh, Lebanon  
Tel : +961 9 226874  
E-mail : [agromec@agromec-international.com](mailto:agromec@agromec-international.com)  
Webpage : [www.agromec-international.com](http://www.agromec-international.com)

#### Emergency Phone Number (24 hours)

+961 3 980599

### 2.0 HAZARDS IDENTIFICATION

This substance is hazardous according to the Hazardous Substances (Classification) Notice 2017

#### Pictograms



Ecotoxic

Signal Word: Warning

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
9.1B	H411	Toxic to aquatic life with long lasting effects.	Aquatic Chronic 2
9.2A	H421	Very toxic to the soil environment.	

Prevention Code	Prevention Statement
P103	Read label before use.
P273	Avoid release to the environment.

Response Code	Response Statement
P391	Collect spillage.

Storage Code	Storage Statement
None allocated	Store in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs.

Disposal Code	Disposal Statement
P501	Wherever possible completely use material by using according to label instructions. Dispose of unwanted product and wastes from spillages as hazardous substances in accordance with local and national regulations using a licensed waste disposal company. Triple rinse containers and add rinsate to spray tank before puncturing and offering for recycling or landfill. Do not allow product to enter waterways. Do not burn product or container.

### 3.0 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Wt%	CAS NUMBER.
Flubendiamide	48	272451-65-7
Non hazardous	To balance	NA

#### 4.0 FIRST AID MEASURES

Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. If eye irritation persists: Get medical advice/attention.

If on Skin Wash off immediately with soap and plenty of water. If skin irritation occurs: Get medical advice/attention.

If Swallowed Wash out mouth with plenty of water. Get medical attention. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: Not applicable

Skin: Not applicable

Inhalation: Not applicable Eyes: Not applicable Chronic: Not applicable

#### 5.0 FIRE – FIGHTING MEASURES

##### Extinguishing media

Suitable extinguishing media : Dry chemical extinguisher, foam, carbon dioxide or water spray (do not use direct jet of water).

Unsuitable extinguishing media : N/A

##### Special hazards arising from the substance or mixture

Hazardous combustion products : carbon dioxide; carbon monoxide

##### Advice for fire-fighters

Flammable liquid. Flash point 62 °C. When heated above flash point, this product releases vapors which when mixed with air, can burn or be explosives. Combustion products are toxic and/or irritant. Measures have to be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably. Use self contained breathing apparatus. Wear protective equipment.

### Additional information

This product is combustible at elevated temperatures.

## 6.0 ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

- Protective equipment : Wear protective clothing and personal protective equipment as prescribed in Section 8.
- Emergency procedures : N/A

#### For emergency responders

- Personal protective equipments : See section 8.

### Environmental precautions

Soak up with absorptive material such as sand, soil, diatomaceous earth, etc. Prevent material from spreading, e.g. by damming in with absorptive material. Collect material in specially marked, tightly closing containers. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative. Do not contaminate waters and sewers.

### Methods and material for containment and cleaning up

#### For containment

See section 7.1

#### For cleaning up

In case materials are released, contact emergency response personnel. Keep unnecessary persons away. If emergency response personnel are unavailable, absorb small spills on spill pillows or other suitable absorbing material (sand or earth) and place in a sealed container for disposal. Dike large spills and transfer to an appropriate container for disposal.

### Other information

N/A

### Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

### Additional information

N/A

## 7.0 HANDLING AND STORAGE

### Precautions for safe handling

#### Protective measures

- Fire preventions : Use non-sparking type tools and equipment, including explosion proof ventilation.
- Environmental precautions : Do not contaminate waters and sewers

### Advice on general occupational by hygiene

Avoid contact with skin, eyes and clothing. Avoid inhalation of fog and vapours. Do not eat, drink or smoke while working. In addition to the measures usually taken in chemical works like splashproof filling and measuring equipment (including vapour stripping), further personal protection measures may have to be implemented to avoid possible contact with the product.

### Conditions for safe storage, including any incompatibilities

- Technical measures and storage conditions : Protect from light and humidity.
- Packaging materials : Store the product in closed original containers.
- Requirements for storage rooms and vessels : N/A
- Hints on storage assembly : N/A
- Further information on storage conditions : Store separately from animal feed, food and stimulants. Store in original container only in cool, dry, well ventilated secure area.

### Specific and use(s)

- Recommendations : Keep out of reach of children and animals.
- Industrial sector specific solutions : N/A

## 8.0 EXPOSURE CONTROL/PERSONAL PROTECTION

Substance	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Propane-1, 2-diol	150	ppm	474	

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES- TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

### Engineering Controls

In workplace ensure good ventilation.

### Personal Protection Equipment



<b>Eyes</b>	Safety goggles or face shield.
<b>Hands and Skin</b>	When mixing or applying wear appropriate protective clothing including cotton overalls buttoned to the neck and wrist, impervious, elbow-length gloves, and eye protection. Remove protective clothing and wash hands, arms and face with soap and water before meals and after work
<b>Respiratory</b>	If fumes build up, use suitable breathing mask.

<b>General</b>	Keep containers closed when not in use. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Wash hands thoroughly after handling. Wash clothing before re-using. When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use.
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## 9.0 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance</b>	Liquid
<b>Colour</b>	Beige
<b>Odour</b>	Sweet
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not available
<b>Boiling Point</b>	100°C
<b>Melting Point</b>	70-72°C
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	Not available
<b>Flammability</b>	Not available
<b>Upper and Lower</b>	Not available
<b>Vapour Pressure (20°C)</b>	2,3 x 10e-6hPa (Flubendiamide ISO)
<b>Density (g/ml)</b>	1,1377 (20°C)
<b>Specific Gravity</b>	Not available
<b>Water Solubility</b>	0,13 g/l (pH 5), 0,125 g/l (pH7), 0,132 g/l (pH9)
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition</b>	Not available
<b>Decomposition</b>	Not available
<b>Viscosity</b>	772 mPas
<b>Particle Characteristics</b>	Not available
<b>Surface tension</b>	44 mN/m (21,1°C)

## 10.0 STABILITY AND REACTIVITY

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Conditions to Avoid</b>	Protect from frost
<b>Incompatible Materials</b>	None known.

<b>Hazardous Decomposition</b>	Carbon oxides (CO, CO <sub>2</sub> ) sulphur oxides (SO <sub>2</sub> , SO <sub>3</sub> )
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## 11.0 TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Acute Effects:

<b>Swallowed</b>	Not applicable. Rat Oral LD 50 [mg/kg] >2000 (OECD 423)
<b>Dermal</b>	Not applicable. Rat dermal LD50 [mg/kg] >4000 (OECD 402)
<b>Inhalation</b>	Not applicable. Rat inhalation LC50 mg/l/4h] >4,29 (OECD 403)
<b>Eye</b>	Not applicable.
<b>Skin</b>	Not applicable.

#### Chronic Effects:

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	Not applicable.

## 12.0 ECOLOGICAL INFORMATION

HSNO Classes: 9.1B = Toxic to aquatic life.  
9.2A = Very toxic to the soil environment.

<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	No data available

**Individual component information (Please refer to [www.epa.govt.co.nz](http://www.epa.govt.co.nz) for full details):**

**The following information is based on Flubendiamide**

Toxic to fish: LC50 22-26,5 mg/l/96h, NOEC 9,3 – 9,7 mg/l/96h

Toxic to daphnia EC50 70,5 mg/l/48h, NOEC 20 mg/l/48h  
EC50 >35 mg/l/21d, NOEC 11,1 mg/l/21d

Toxic to algae Scenedusmus suspicatus EbC50 6,65 mg/l/72h, ErC50 12,42 mg/l/72h

NOEC 3,5 mg/l/72h

## 13.0 DISPOSAL CONSIDERATIONS

Disposal Method: - Triple rinse empty container and add rinsate to spray tank. Burn in an appropriate incinerator, if circumstances such as wind direction permit. Otherwise crush or puncture and bury in a suitable landfill, or if appropriate, recycle

Precautions: Do not allow product to enter waterways.

Disposal methods to avoid: Do not burn product or container

## 14.0 TRANSPORT INFORMATION

**This product is classified as a Dangerous Good for transport**



### Road and Rail Transport

UN No:	3082
Class-primary	9
Packing Group	III
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Flubendiamide)

### Air Transport

UN No:	3082
Class-primary	9
Packing Group	III
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Flubendiamide)

### Marine Transport

UN No:	3082
Class-primary	9
Packing Group	III
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Flubendiamide)
Marine Pollutant:	Yes

If the product's individual container is below 5L, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG

## 15.0 REGULATORY INFORMATION

EPA Approval Code: HSR000826



HSNO Classification: 9.1B, 9.2A

<b>HSW (HS) Regulations 2017 and EPA Notices</b>		<b>Trigger Quantity</b>
Certified Handlers		Not Required
Location Certificate		Not required
Tracking Trigger Quantities		Not required
Signage Trigger Quantities		100L(9.2A)
Emergency Response Plan		1000L(9.1B)
Secondary Containment		1000L(9.1B)
<b>HSNO Additional Controls (Restrictions of use)</b>		
77A	This substance must not be applied onto or into water.	
<b>Hazardous Property Controls Notice 2017</b>		
HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate	
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides and plant growth regulators	
HPC Notice Part 3	Hazardous substances in a place other than a workplace.	
HPC Notice Part 4 Subpart A	Site and storage controls for class 9 substances	
HPC Notice Part 4 Subpart C	Qualifications required for application of class 9 pesticides	
<b>ACVM Act and Regulations</b>		
Registered pursuant to the ACVM Act 1997, See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions	No. P8169	

## 16.0 OTHER INFORMATION

### Further Information

The information contained herein relates only to the specified material identified. AGROMECC believes that such information is accurate and reliable as of the data of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. AGROMECC urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.