



## Safety Data Sheet

# AGRITHAL FLO **L10627** (Act 36 of 1947) **N-AR 1684**

Date of issue: 04504/2019

1) PRODUCT AND COMPANY IDENTIFICATION	
Product name:	AGRITHAL FLO
Other means of identification:	Chlorthal-dimethyl 480 g/L SC
Recommended use:	Herbicide
Restrictions on use:	No information available
UN Number:	Not regulated
Distributed by:	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 FAX 0866901386 MOBILE: 0834006056 www.agritech.co.za
Emergency Number:	POISON CENTRE (UNITAS HOSPITAL) 012 664 1100 WESTERN CAPE POISONS TELEPHONE SERVICE 0861 555 777 RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946.
Chemical Name:	tetrachloroterephthalic acid (IUPAC)
2) Classification of the substance / mixture:	
Classification of the product is based on the coformulants listed in section 3.	Hazard symbols:   Signal word: <b>Warning</b> Xn – Harmful N – Dangerous for the environment.
Label elements:	Hazard symbols:
Hazards Identification:	
Health effects: eyes:	May cause mild irritation.
Health effects: skin:	May cause mild irritation.
Health effects: ingestion	May cause irritation and may be harmful.

<b>Health effects: inhalation</b>	Unlikely to cause harmful effects under normal conditions and use.
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### 3) COMPOSITION / INFORMATION ON INGREDIENTS:

Chemical name	composition	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)	Classification according to 67/548/EEC
Chlorthal-dimethyl	48% w/w	1861-32-1	217-464-7	Not classified	Not classified
Hexachlorobenzene	Trace	118-74-1	204-273-9	Carc, 1B: H350: May cause cancer. H372: Causes damage to organs. Aquatic acute 1: H400: Very toxic to aquatic life Aquatic Chronic 1: H410: Very toxic to aquatic life with long lasting effects.	Xi, Xn, N R20/22 R36/38 R57

Full text of symbols, R-phrases and S-phrases: see section 15.

### 4) First Aid Measures:

<p><b>Eye contact:</b></p> <p><b>Skin contact:</b></p> <p><b>Ingestion</b></p> <p><b>Inhalation:</b></p> <p><b>Most important symptoms and effects, acute and delayed:</b></p> <p><b>Indication of immediate medical attention and special treatment needed: Advice to physician</b></p>	<p>Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance immediately.</p> <p>Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. Do not rub skin. Seek medical assistance if irritation occurs.</p> <p>Never give anything by mouth to an unconscious person. Induce vomiting. For advice, contact the National Poisons Centre. Seek medical assistance immediately</p> <p>Remove patient to fresh air. Loosen clothing around neck. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance if necessary.</p>
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### 5) Fire-Fighting Measures:

<b>Suitable extinguishing Media:</b>	Fine water spray, foam, carbon dioxide.
<b>Unsuitable extinguishing media:</b>	Do not use high volume water jet, due to contamination risk.





<b>Solubility:</b>	Emulsifies in water
<b>pH:</b>	3 - 7 (1 %; in deionised water)
<b>Melting point / Freezing point</b>	156 ° C (based on active ingredient)
<b>Initial boiling point and boiling range</b>	Decomposes at 360 – 370 ° C
<b>Flash point:</b>	Not applicable – product is water based
<b>Evaporation rate:</b>	No data available
<b>Flammability (solid, gas)</b>	Non-flammable
<b>Upper/ lower flammability or explosive limits:</b>	Not explosive.
<b>Vapour pressure:</b>	0.21 mPa (2.5 x 10 <sup>-6</sup> torr @ 25 ° C)
<b>Vapour density:</b>	Heavier than air
<b>Relative density:</b>	No data available
<b>Solubility(ies)</b>	Disperses in water. Soluble in aromatic hydrocarbons, chlorinated hydrocarbons, ketones and esters (active ingredient)
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Viscosity:</b>	No data available
<b>10) Stability &amp; Reactivity:</b>	
<b>Reactivity:</b>	No data available
<b>Chemical stability:</b>	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Protect from light and humidity. This product will decompose at elevated temperatures
<b>Hazardous decomposition product(s):</b>	Heating can release vapours which can be ignited. Combustion products are toxic and/or irritant. This product will not polymerize.  Protect from light and humidity.
<b>Conditions to avoid:</b>	This product is incompatible with strong acids and bases.
<b>Incompatible materials:</b>	
<b>11) Toxicological Information:</b>	
Active ingredient:	
Oral : LD50 > 15 000 mg/kg, rat.	
Dermal : LD50 > 4 000 mg/kg, rabbit.	
Inhalation : LC50 (4h) > 7.0 mg/L, rat.	
Skin irritation : Mild irritant, rabbit.	
Eye irritation : Mild irritant, rabbit.	
Sensitization : Did not cause sensitization on laboratory animals.	
Teratogenicity: No evidence of teratogenicity has been observed in laboratory testing of this product.	
Mutagenicity : No evidence of mutagenicity has been observed in laboratory testing of this product.	

Carcinogenicity: A contaminant which may be present: Hexachlorobenzene, has been found to be a possible carcinogen. Classed as group C, possible carcinogen, based on the increased incidence of thyroid tumours in both sexes of rat, and liver tumours in female rats and mice.

Reproductive toxicity: No effects on reproductive performance have been observed. Decreased pup and parental body weights were observed throughout two successive generations in the rat.

## 12) Ecological Information:

**Bees** : LD50 (48h) Oral >35 µg/bee; Contact >80 µg/bee. Slightly toxic to bees.

**Birds** : LD50 Bobwhite quail & Mallard ducklings > 2000 mg/kg.

Dietary LC50 (8d) Bobwhite quail & Mallard ducklings >5 000 mg/kg diet.

**Fish** : LC50 (96h) Rainbow trout >70 mg/L, Bluegill sunfish >25 mg/L. Daphnia : EC50 (48h) > 0.02 mg/L.

**Persistence:** Rapidly degraded in biologically active soils under aerobic conditions. DT50 13-20days.

**Biodegradation:** Metabolized in animals to monoethyl ester and chlorthal, which are eliminated in the urine.

**Bioaccumulative potential:** No data available

## 13) Disposal Considerations:

**Waste Disposal** : : In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved chemicals waste disposal facility.

**Container Disposal** : Refer to the product label for instructions. Triple rinse empty containers before disposal in the following manner: Invert the container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed to a drip. Thereafter, rinse the container three times with a volume of water equal to a third of that of the container volume. Add rinsing to the contents of the spray tank before destroying the container in the prescribed manner. Empty containers should not be burnt; puncture and flatten containers and dispose at a licensed landfill site according to local regulations. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Prevent contamination of water sources, food or feed by disposal. **DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.** If recycling, replace cap and take containers to the designated recycling point. If containers cannot be recycled, they should be disposed of together with the waste chemical according to local regulations.

## 14) Transportation Information:

UN Number: Not regulated

Class: 9

Packing group: III

UN proper shipping name: NA

Transport hazard class(es): Not classified as hazardous for transport. Packing group: NA

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC code): NA Special precautions: NA

Environmental hazard: Yes

## 15) Regulatory Information:

**Safety, health and environmental regulations / legislation specific for the substance or mixture.**

To avoid risks to man and the environment, comply with all instructions for use.

Advice on handling of the product can be found in sections 7 and 8 of this safety data sheet.

**Symbol(s):** Xn – Harmful

Xi – Irritant

N – Environmentally hazardous substance.

**Risk-phrase(s):**

R 20/22 – Harmful by inhalation and if swallowed.

R36/38 – Irritating to eyes and skin.

R57 – Toxic to bees.

**Safety-phrase(s):**

S1/2 – Keep locked up and out of reach of children.

S13 – Keep away from food, drink and animal feeding stuffs.

S15/16 – Keep away from heat and sources of ignition.

S20/21 – When using, do not eat drink or smoke.

S24/25 – Avoid contact with skin and eyes.

S28 – After contact with skin, wash immediately with plenty of water.

S36/37/39 – Wear suitable protective clothing, gloves and eye / face protection.

S46 – If swallowed, seek medical advice immediately and show this container

S60 – This material and its container must be disposed of as hazardous waste.

S62 – If swallowed, do not induce vomiting; seek medical advice immediately.

**16) Other Information:**

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

It is the responsibility of persons in receipt of this SDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with this product. If the recipient subsequently produces formulation(s) containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this SDS to their own SDS. The information contained herein is provided in good faith but makes no representation as to its comprehensiveness or accuracy. A properly trained person using this product intends this document only as a guide to the appropriate handling of the material. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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