with us you are growing goodness



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Safety Data Sheet

AGRITHAL FLO L10627 (Act 36 of 1947)

N-AR 1684

Data of ignue: 04504/2010

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:	lassification of the substance / mixture:			
Classification of the product is based on the	Hazard symbols:			
coformulants listed in section 3.	*			
	Signal word: Warning			
	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.			

Health effects: inhalation			Unlikely to couse.	Unlikely to cause harmful effects under normal conditions and use.			
3	B) COMPOSITION / INF	ORMATION ON II	NGREDIENTS:				
	Chemical name	composition	CAS No.	EC No.	Classification according to Regulation EC	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	Xi, Xn, N R20/22 R36/38 R57	
					Aquatic Chronic 1: H410: Very toxic to aquatic life with long lasting effects.		
	Full text of symbols, R-p 1) First Aid Measures:	ohrases and S-phr	ases: see section	on 15.			
Eye contact: Skin contact:			eyelids open immediately Immediately water. Remo	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance immediately. Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash			
Ingestion				Seek medica Never give a Induce vomi	affected areas with soap and water. Do not rub skin. Seek medical assistance if irritation occurs. Never give anything by mouth to an unconscious person. Induce vomiting. For advice, contact the National Poisons Centre. Seek medical assistance immediately		
Inhalation:				Lie down and or has stopp	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 f necessary.		
Most important symptoms and effects, acute and delayed:							
Indication of immediate medical attention and special treatment needed: Advice to physician							
5) Fire-Fighting Measures:							
Suitable extinguishing Media:			Fine water s	Fine water spray, foam, carbon dioxide.			
Unsuitable extinguishing media:				Do not use high volume water jet, due to contamination risk.			

Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended Fire Fighting: extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Do not scatter the material. Avoid pollution of waterways. Generating poisonous and corrosive fumes containing: carbon monoxide, nitrogen oxides and hydrochloric acid. UNUSUAL FIRE OR EXPLOSION HAZARDS: Combustion products are toxic and/or irritant. Protective clothing: Full protective clothing and self-contained breathing apparatus 6) Accidental Release Measures: **Personal precautions:** Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use. Do not contaminate waterways, drains and groundwater. If **Environmental precautions:** contamination of waterways, drains, rivers or lakes is unavoidable, warn the local authorities (Police and Department of Water/Environmental affairs) immediately. Wear protective clothing. Clear area of unprotected Cleaning procedure: personnel. Contain and absorb liquid spills with inert material, remove by scoop or vacuum. Use approved industrial vacuum cleaner for removal and place in waste containers. Wash area with water and detergent and absorb with further inert material. Heavily contaminated soil layers have to be dug out down to clean soil. If spill does enter waterways contact the local authority. Spilled product cannot be re-used and must be disposed of by incineration or disposal in a chemical waste disposal facility. If containers cannot be recycled, they should be disposed of together with the waste chemical. Waste Disposal: In accordance with local and national regulations. Must be Disposal: 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 waste disposal facility. **Container Disposal:** Refer to the product label for instructions. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE.

7) Handling & Storage:

Do not transport if this container is damaged or leaking.

Handling:	Avoid skin and eye contact and inhalation of spray mist.				
	Avoid inhalation of fog and vapours. Keep away from heat and sources of ignition. Take precautionary measures against static discharges (transfer operations: check grounding). May form explosive vapour-air mixtures. Spills may be slippery and should be cleaned up immediately.				
	APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor.				
	BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.				
	Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds.				
	Keep away from children or uninformed persons.				
	Max. Storage Temperature: 35 °C				
	Min. Storage Temperature: -5 °C				
Storage:	Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Keep away from children or uninformed persons. Avoid extreme temperatures.				
8) Exposure Control / Personal Protection:					
It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.					
PERSONAL PROTECTIVE EQUIPMENT:					
Clothing:	Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.				
	Respiratory protection: Respirator with filter for				
	organic vapour.				
Gloves:	Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance				
Eye protection:	The use of safety goggles with side shields is recommended.				
Emergency eye wash:	Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.				
9) Physical & Chemical Properties:					
Form:	Liquid				
Colour:	Yellow to brown				
Odour:	Mild characteristic odour				
Odour threshold	No data available				

Solubility: Emulsifies in water

pH: 3 - 7 (1 %; in deionised water)

Melting point / Freezing point 156 ° C (based on active ingredient)

Initial boiling point and boiling range Decomposes at 360 – 370 ° C

Flash point: Not applicable – product is water based

Evaporation rate:No data availableFlammability (solid, gas)Non-flammable

Upper/ lower flammability or explosive limits: Not explosive.

Vapour pressure: 0.21 mPa (2.5 x 10⁻⁶ torr @ 25 ° C)

Vapour density:Heavier than airRelative density:No data available

Solubility(ies) Disperses in water. Soluble in aromatic hydrocarbons,

chlorinated hydrocarbons, ketones and esters (active

ingredient)

No data available

Partition coefficient: n-octanol/waterNo data availableAuto-ignition temperature:No data available

10) Stability & Reactivity:

Viscosity:

Reactivity: No data available

Chemical stability: 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

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.

Conditions to avoid:

This product is incompatible with strong acids and bases.

Incompatible materials:

11) Toxicological Information:

Hazardous decomposition product(s):

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 grop 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 NO 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:

NΑ

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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