

Safety Data Sheet

DIVERT 75 WG - Reg. No: L 8132 (Act No 36 of 1947)

Date of issue: 14/11/2006

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1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	DIVERT 75 WG
Other means of identification:	Triasulfuron 750 g/kg WDG
UN number:	3077
Recommended use:	Herbicide
Restrictions on use:	Agriculture
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:	1-[2-(2-chloroethoxy)phenylsulfonyl]-3-(4-methoxy-6methyl-1,3,5-triazin-2-yl) urea (IUPAC)
2) CLASSIFICATION OF THE SUBSTANCE / MIXTURE:	
Classification of the product:	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 N; R50/53. Full text of R-phrases; see section 15.
Label elements:	<p>Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.</p> <p>Hazardous components which must be listed on the label: TRIASULFURON.</p> <p>Hazard Pictogram(s):</p> <p></p> <p>Signal Word: WARNING</p>

	Hazard statement(s): H400: Very toxic to aquatic life H410: Very toxic to aquatic life with long-lasting effects				
Health effects: eyes:	May cause irritation.				
Health effects: skin:	May cause irritation.				
Health effects: ingestion	The product is not likely to be hazardous by ingestion				
Health effects: inhalation	May be harmful				
Health effects: Other	No data available				
3) COMPOSITION / INFORMATION ON INGREDIENTS:					
Mixture:					
Chemical name	Composition	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)	Classification according to 67/548/EEC
Triasulfuron	75 %	82097-50-5		Aquatic Acute 1, H400 Aquatic Chronic 1, H410	N; R50-53
Inerts	25 %				
Full text of R- and S-phrases: see section 15.					
4) FIRST AID MEASURES:					
Eye contact:	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Remove contact lenses. Seek medical assistance immediately.				
Skin contact:	Thoroughly wash body with large amounts of water and soap. Remove contaminated clothing and footwear. Wash affected areas with soap and water. Persons providing first aid must wear gloves to avoid self-contamination. Seek medical assistance should irritation persist. Wash contaminated clothing before re-use				
Ingestion:	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. One or two glasses of water may be given. For advice, contact the National Poisons Centre. Seek medical assistance immediately.				
Inhalation:	Remove patient to fresh air. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance.				
Most important symptoms and effects, acute and delayed:	None known				
Indication of immediate medical attention and special treatment needed: Advice to physician	No specific antidote is known. Treat symptomatically and supportively as and when needed.				
5) FIRE-FIGHTING MEASURES:					
Suitable extinguishing media:	Extinguish fire with foam, dry powder, carbon dioxide or water spray/fog				
Unsuitable extinguishing media:	Water jet, due to contamination risk.				

Special hazards arising from the substance or mixture:	This product consists of combustible organic components that may burn and decompose during a fire and produce a dense black smoke with hazardous combustion products. These products are toxic and/or irritant. Exposure to decomposition products may be a health hazard
Fire-fighting:	<p>Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire.</p> <p>Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. If area is heavily exposed to fire and if conditions permit, let fire burn itself out. Contain fire control agents for later disposal.</p> <p>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.</p> <p>May generate poisonous and corrosive vapours of carbon oxides, nitrogen oxides and corrosive fumes of chloride, toxic mists or other products of combustion.</p>
Protective clothing:	Full protective clothing and self-contained breathing apparatus. When fighting a major fire wear an air-supplied respirator.
6) ACCIDENTAL RELEASE MEASURES:	
Personal precautions:	Avoid contact with skin and eyes. Do not breathe in the spray or fumes. For personal protection see section 8.
Environmental precautions:	Do not contaminate waterways, drains and groundwater. If contamination of waterways, drains, rivers or lakes is unavoidable, warn the local authorities (Police and Department of Water/Environmental affairs) immediately.
Cleaning procedure:	<p>Wear protective clothing. Clear area of unprotected personnel. Contain and absorb liquid spills with inert material and place in waste containers. Wash area with</p> <p>water containing soda or detergent and absorb with further inert material. If spill does enter waterways contact the local authority. Heavily contaminated soil layers should be removed and disposed of in an approved way. 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</p>
Disposal:	<p>Waste Disposal:</p> <p>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 waste disposal facility.</p> <p>Container Disposal:</p> <p>Refer to the product label for instructions.</p> <p>If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product.</p> <p>DO NO REUSE THE CONTAINER FOR ANY OTHER</p>

[illegible]

MELTING POINT / FREEZING POINT INITIAL BOILING POINT AND BOILING RANGE FLASH POINT: EVAPORATION RATE: FLAMMABILITY (SOLID, GAS) UPPER/ LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: VAPOUR PRESSURE: VAPOUR DENSITY: RELATIVE DENSITY: SOLUBILITY(IES) PARTITION COEFFICIENT: N-OCTANOL/WATER AUTO-IGNITION TEMPERATURE: VISCOSITY:	Triasulfuron melts at 178°C Not flammable Does not flash Not flammable No data available No data available Negligible at ambient temperatures No data available No data available Dispersible in water. No data available N/A N/A
10) STABILITY & REACTIVITY:	
Reactivity: Chemical stability: Hazardous decomposition product(s): Conditions to avoid: Incompatible materials:	No dangerous reaction known under conditions of normal use. Polymerization will not occur. No decomposition if stored and applied as directed. No decomposition if stored (up to 2 years) and applied as directed. Store in original containers and keep tightly closed. Store between -5 °C and 35 °C. When heated to decomposition: Toxic oxides of carbon, nitrogen and corrosive fumes of chloride are released. Decomposes at 180 – 190 ° C Protect from direct sunlight. Acids, bases and oxidizing agents.
11) TOXICOLOGICAL INFORMATION:	
Acute: Oral LD ₅₀ >5 000 mg/kg, rat Dermal LD ₅₀ > 5 000 mg/kg, rats Inhalation LC50 (4h): > 5.18 mg/L air, rat. Skin irritation : Mild irritant, rabbit. Eye irritation : Not irritant, rabbit. Sensitisation : Does not cause sensitization by skin contact, guinea pig. Other : Repeated dose toxicity . Mutagenicity: Not mutagenic Carcinogenicity: Not carcinogenic Teratogenicity: Diuron is teratogenic at very high dosages.	
12) ECOLOGICAL INFORMATION: Information below based on active ingredient	
Bees: LC ₅₀ (oral & contact): > 145 mg/kg/bee. Not toxic to bees. Birds: LD ₅₀ : (oral) for quail and ducks is greater than 2150 mg/kg. Triasulfuron has very low avian toxicity.	

Fish: LC₅₀ (96hrs) for Rainbow trout > 100 mg/l in rainbow trout, carp, catfish, sheepshead minnow and bluegill sunfish. 96hour toxicity tests with the freshwater invertebrate. *Daphnia magna* resulted in a LC₅₀ of greater than 100 mg/l. The chemical has very low toxicity to aquatic organisms

Algae: LC₅₀ (14 d) >400 mg/kg (based on studies with diuron metabolites).

Worms:

Other species:

Triasulfuron has very low acute toxicity to honey bees with a topical LD₅₀ of greater than 100 µg/bee. The LC₅₀ for earthworms is greater than 1,000 mg/kg soil (14 day). The EC₅₀ (5-14day) for Algae are as follows: for *Selenastrum* 0.035, for *Scenedesmus* 0.77, for *Anabaena* 1.7 and for *Navicula* >100mg/L

Environmental fate:

Animals: In animals, mainly excreted in the urine in unchanged form. DT₅₀ in forage is about 3 days. In straw and grain, no residues were detectable at harvest time.

Soil/environment: The degradation behavior in soil is determined by the soil type, pH and especially temperature and moisture content. Field studies with silty loam, clay loam and sandy loam showed a median DT₅₀ of 19 days, varying with soil type. is readily absorbed through the root system of plants and less readily so through the leaves and stems

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 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: 3077

Road Transport ADR/ RID:

Class: 9

Packaging group: III

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIASULFURON)

Maritime Transport IMDG / IMO:

Marine Pollutant: Yes

Class: 9

Packaging group: III

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIASULFURON).

Air Transport ICAO/IATA:

Class: 9

Packing group: III

Labels : Miscellaneous

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TRIASULFURON).

15) REGULATORY INFORMATION:

Labelling according to EC directives:

Hazardous components which must be listed on the label: TRIASULFURON



Symbols:

Risk – Phrase (s):

R50/53 - Very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

Safety – Phrase (s):

S 2 - Keep out of the reach of children.

S 13 - Keep away from food, drink and animal feeding stuffs.

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

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

S61 - Avoid release to the environment. Refer to special instructions / safety data sheets.

Hazard Statements

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long-lasting effects

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.

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