


Safety Data Sheet

TROOPER SL - Reg. No: L 6806 (Act No 36 of 1947)

Date of issue: 05/08/2010

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1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	TROOPER SL
Other means of identification:	Dicamba 80 / 2,4-D 240 g/L SL
UN number:	3082
Recommended use:	Herbicide
Restrictions on use:	For use as an agricultural remedy only.
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:	2,4 D: (2,4-dichlorophenox)acetic acid Dicamba: 3,6-dichloro-2-methoxybenzoic acid
2) Classification of the substance / mixture:	
Classification of the product:	N; Xn; Xi; R22; R36/37/38; R41; R43; R52/53 Full text of R-phrases; see section 15
Label elements:	Hazard pictogram(s):  Signal word: Corrosive For full text of symbols, R phrases and H statements refer to section 15.
Health effects: eyes:	May cause irritation.
Health effects: skin:	May cause mild skin irritation
Health effects: ingestion	May cause irritation and may be harmful.
Health effects: inhalation	Unlikely to cause harmful effects under normal conditions and use.
Health effects: Other	No data available
3) COMPOSITION / INFORMATION ON INGREDIENTS:	
Mixture:	

Chemical name	Composition (g/L)	CAS No.	EC No.	CLP Classification	Classification according to 67/548/EEC
Dicamba	80	1918-00-9	217-635-6	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412	Xn; R22 Xi; R41 N; R52-53
2,4-D	240	94-75-7	202-361-1	Acute Tox. 4, H302 Skin Sens. 1, H317 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 3, H412	Xn; R22 Xi; R37-41 R43 R52-53

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. Seek medical assistance.
Skin contact:	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. Persons providing first aid must wear gloves to avoid selfcontamination. Seek medical assistance should irritation persist.
Ingestion:	Drink 1-2 glasses of water. Induce vomiting or administer charcoal every 2-4 hours. Never give anything by mouth to an unconscious person. For advice, contact the National Poisons Centre. Seek medical assistance immediately.
Inhalation:	Remove patient to fresh air and 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 irritation persists.
Most important symptoms and effects, acute and delayed:	No data available
Indication of immediate medical attention and special treatment needed: Advice to physician	Treat symptomatically. Induce emesis. Perform gastric lavage if large amounts are ingested. Wash area of contact thoroughly.

5) Fire-Fighting Measures:

Suitable extinguishing media:	Fine water spray, foam, carbon dioxide dry powder or halon extinguishant.
Unsuitable extinguishing media:	Water jet, due to contamination risk.
Special hazards arising from the substance or mixture:	Generating poisonous and corrosive fumes containing: carbon monoxide, nitrogen oxides and hydrochloric acid.
Fire-fighting:	Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended 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.
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.
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<p>Environmental precautions:</p> <p>Cleaning procedure:</p> <p>Disposal:</p>	<p>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.</p> <p>Wear protective clothing. Clear area of unprotected 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. Heavily contaminated soil layers should also be removed. Wash area with water and detergent or soda and absorb with further inert material. 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.</p> <p>Waste Disposal:</p> <p>In accordance with local and national regulations. Spilled product cannot be re-used and must be disposed of by incineration or disposal 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. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. If containers cannot be recycled, they should be perforated and flattened and disposed of together with the waste chemical. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Do not transport if this container is damaged or leaking.</p>
7) Handling & Storage:	
<p>Handling:</p> <p>Storage:</p>	<p>Avoid skin and eye contact and inhalation of spray mist. Keep away from heat and sources of ignition. 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. Spills may be slippery and should be cleaned up immediately. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.</p> <p>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.</p>
8) Exposure Control / Personal Protection:	
<p>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.</p> <p><u>PERSONAL PROTECTIVE EQUIPMENT:</u></p> <p>Clothing:</p> <p>Gloves:</p> <p>Eye protection:</p> <p>Respiratory protection:</p>	<p>Consult supplier to confirm that the equipment is suitable.</p> <p>Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.</p> <p>Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance</p> <p>The use of safety goggles is recommended.</p> <p>Wear suitable respiratory equipment, especially during spraying, such as a face mask.</p>

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:	Orange / Brown
Odour:	Sulphurous
Odour threshold:	No data available
pH:	8 – 8.5
Melting point / Freezing point	No data available
Initial boiling point and boiling range	No data available > 70 °C (closed-cup)
Flash point:	Not flammable
Evaporation rate:	No data available
Flammability (solid, gas)	No data available
Upper/ lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Solubility(ies)	Soluble in water
Partition coefficient: n-octanol/water	No data available No data available
Auto-ignition temperature:	No data available
Viscosity:	No data available
10) Stability & Reactivity:	
Reactivity:	No data available
Chemical stability:	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Thermally and chemically stable.
Hazardous decomposition product(s):	Hydrogen chloride, carbon monoxide, carbon dioxide.
Conditions to avoid:	Protect from excessive heat and direct sunlight.
Incompatible materials:	Strong acids and oxidizing agents.
11) Toxicological Information:	
2,4-D	
Acute:	
Oral LD50	>600 mg/kg, rat
Dermal LD50	>2 400 mg/kg, rabbit. LD ₅₀ >1600 mg/kg, rat
Inhalation LC50 (24h):	> 1.70 mg/L, rat.
Skin irritation	: Irritant, rabbit
Eye irritation	: Irritant, rabbit
Sensitisation	: A skin sensitizer (guinea pigs)
Mutagenicity	: No data available
Carcinogenicity	: No data available
Reproductive toxicity	: No data available
Teratogenicity	: No data available
Repeated dose toxicity:	No data available

Dicamba

Acute:

Oral LD50 >1 700 mg/kg, rat

Dermal LD50 >1 600 mg/kg, rat

Inhalation LC50 (4h): > 9 mg/L, rat.

Skin irritation : Irritant, rabbit

Eye irritation : Irritant, rabbit

Sensitisation : Not a skin sensitiser (guinea pigs)

Mutagenicity : No data available

Carcinogenicity : No data available

Reproductive toxicity : No data available

Teratogenicity : No data available

Repeated dose toxicity: No data available

12) Ecological Information:

Information below based on active ingredient:

2,4-D:

Bees: Not toxic to bees; LD₅₀ Oral > 100 µg/bee

Birds: LC₅₀ (96h) Mallard ducks > 5000 mg/l.

Fish : LC₅₀ (96h) Rainbow trout > 100 mg/L

Algae : EC50 (5d) *Selenastrum capricornutum* > 33 mg/L.

Worms: No data available

Other aquatic species: *Daphnia*: LC₅₀ (21d) > 200 mg/L

Persistence and Degradability:

Rapidly degraded under normal conditions.

Dicamba:

Bees: Not toxic to bees; LD₅₀ Oral > 100 µg/bee

Birds: LD₅₀ Mallard ducks 2000 mg/kg. Dietary LC₅₀ (8d) Mallard ducks & Bobwhite quail >10 000 mg/kg diet

Fish : LC₅₀ (96h) Rainbow trout & Bluegill sunfish 135 mg/L Some formulations (e.g. esters) are toxic to fish, whilst others are not.

Algae : LC₅₀ 41 to >250 mg/L.

Worms: No data available

Other aquatic species: *Daphnia*: LC₅₀ (48h) > 100 mg/L.

Persistence and Degradability:

Under conditions amenable to rapid metabolism, DT₅₀ <14 days, K_{oc} 2.

13) Disposal Considerations:

Waste Disposal : : In accordance with local and national regulations. Spilled product cannot be re-used and must be disposed of by incineration or disposal 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. If containers cannot be recycled, they should be perforated and flattened and disposed of together with the waste chemical. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.

Do not transport if this container is damaged or leaking.

14) Transportation Information:

UN NUMBER: 3082

Road Transport ADR/ RID:

Class: 9

Packaging group: III

Labelling no: 9

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D amine, Dicamba)

Maritime Transport IMDG / IMO:

Class: 9

Packaging group: III

Labelling no: 9

MARINE POLLUTANT

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D amine, Dicamba)

AIR/IATA

Class: 9

Packaging group: III

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D amine, Dicamba)

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC code): Not applicable

15) Regulatory Information:

Symbols: Xn – Harmful

N - Dangerous for the environment

Xi – Irritant

Risk – Phrase:

R22 - Harmful if swallowed.

R36/37/38 - Irritating to eyes, respiratory system and skin.

R41 - Risk of serious damage to eyes.

R43 - May cause sensitisation by skin contact.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety – Phrase:

S1/2 - Keep locked and out of reach of children.

S24/25 - Avoid contact with skin and eyes.

S26 - In case on contact with eyes, rinse immediately with plenty of water and seek medical advice.

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

S36/37/39 - Wear suitable protective clothing and eye/face protection.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

S46 - If swallowed, seek medical advice immediately and show this container or label.

S61 - Avoid release to the environment. Refer to special instructions/Safety data sheet.

National legislation:

In accordance with the South African National Road Traffic Act, 1996 (Act 93 of 1996), the Fire Brigade Act, 1987 (Act 99 of 1987) and the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)

2,4-D:

Xn; R22| Xi; R37, R41| R43| R52, R53: (for salts Xn; R22| Xi; R41| R43| N; R51, R53; for esters Xn; R22| R43| N; R50, R53)

DICAMBA:

Xn; R22| Xi; R41| R52, R53

Hazard Statements

H302 - Harmful if swallowed.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage
H335 - May cause respiratory irritation
H412 - Harmful 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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