

Safety Data Sheet

EQUATE SL- Reg. No: L 7158 (Act No 36 of 1947)

Date of issue: 26/08/2010

Date revised: 05/01/2021

| 1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER. | |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product name: | EQUATE SL |
| Other means of identification: | Imazethapyr 100 g/L SL |
| UN number: | Herbicide. |
| Recommended use: | 2902 |
| 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-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid |
| 2) CLASSIFICATION OF THE SUBSTANCE / MIXTURE: | |
| Classification of the product: | Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Xi, N; R20/22, R36, R36/38, R41, R51, R53, R51/53 Full text of R-phrases: see section 15. |
| Label elements: | Labelling according to EC directives: Hazardous components which must be listed on the label: IMAZETHAPYR Hazard pictogram(s)  Signal Word: WARNING |

| | | | | | |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------|-----------------------------------------------------------|---------------------------------------------------|
| | Hazard statement(s): H400: Very toxic to aquatic life. H410: Very toxic to the aquatic life with long lasting effects Precautionary statement(s): P410: Keep out of reach of children P501: Dispose of contents/ Container to an approved waste disposal plant. | | | | |
| Health effects: eyes: | May cause mild irritation. | | | | |
| Health effects: skin: | May cause mild irritation. | | | | |
| Health effects: ingestion | Harmful if swallowed and harmful if swallowed. | | | | |
| Health effects: inhalation | Unlikely to cause harmful effects under normal conditions and use. | | | | |
| Health effects: Other | None known | | | | |
| 3) COMPOSITION / INFORMATION ON INGREDIENTS: | | | | | |
| Mixture: Imazethaphyr 100g/L soluble concentration (SL) | | | | | |
| Chemical name | Composition | CAS No. | EC No. | Classification according to Regulation EC 1272/2008 (CLP) | Classification according to 67/548/EEC |
| imazethaphyr | 10 % | 81335-77-5 | - | Aquatic Acute 1(H400) Aquatic Chronic 1(H410) | Xi, N; R20/22, R36, R36/38, R41, R51, R53, R51/53 |
| Other | | | | | |
| 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. Obtain medical attention if irritation persists. | | | | |
| 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. of in excess of 60 ml in a child and 240 ml in an adult may produce signs and symptoms of ethylene glycol poisoning, including severe metabolic acidosis, oxaluria, hypocalcemia and renal failure due to crystaluria. Treat | | | | |

| | |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <p>symptomatically.</p> <p>Persons providing first aid must wear gloves to avoid self-contamination. Treatment with intravenous bicarbonate to combat acidosis and ethanol to inhibit the metabolism of the glycol to oxalate may be necessary.</p> |
| 5) FIRE-FIGHTING MEASURES: | |
| Suitable extinguishing media: | Fine water spray, foam, carbon dioxide. |
| Unsuitable extinguishing media: | Do not use high volume water jet, due to contamination risk. |
| Special hazards arising from the substance or mixture: | No information available. |
| 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>UNUSUAL FIRE OR EXPLOSION HAZARDS:</p> <p>Generating poisonous and corrosive fumes, such as carbon monoxide, nitrogen oxides and hydrochloric acid</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 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: 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: Refer to the product label for</p> |

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 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. .Do not transport if this container is damaged or leaking. |
| 7) HANDLING & STORAGE: | |
| Handling: | <p>Avoid skin and eye contact and inhalation of spray mist. Keep away from heat and sources of ignition. Ensure adequate ventilation.</p> <p>Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use.</p> <p>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.</p> |
| Storage: | <p>Store in the original container tightly closed and in a locked, dry, cool, well-ventilated area away from foodstuffs, fertilisers, seeds, drink, pharmaceuticals or cosmetics. Store in compliance with local regulations. Protect from excessive heat and cold.</p> <p>Keep away from children or uninformed persons.</p> <p>Keep away from direct sunlight.</p> <p>Suitable materials: HDPE (High Density Polyethylene)</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> | |
| <u>PERSONAL PROTECTIVE EQUIPMENT:</u> | |
| Clothing: | Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance. |
| 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. |
| Respiratory protection: | Wear respirator if ventilation is inadequate or exposure to high levels are likely |
| 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: Colour: Odour: Odour threshold: pH: 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: | Liquid Dark brown Characteristic No data available 6.0-8.0 No data available Not flammable >90 0C Not flammable Not highly flammable,(water based). No data available No data available No data available No data available Miscible in water. No data available No data available No data Available |
| 10) STABILITY & REACTIVITY: | |
| Reactivity: Chemical stability: Hazardous decomposition product(s): Conditions to avoid: Incompatible materials: | No hazardous reactions known. Hazardous polymerisation does not occur. Combustion or thermal decomposition will evolve toxic and irritating vapours. Stable under normal conditions. When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture Fire may produce irritating or poisonous vapours, mists or other products of combustion. No data available No data available. Store only in the original container. |
| 11) TOXICOLOGICAL INFORMATION: | |
| Acute: Oral LD ₅₀ >5 000 mg/kg, rat Dermal LD ₅₀ > 2 000 mg/kg, rats Inhalation LC50 (4h): > 3.3 mg/L air, rat. Skin irritation : Mild irritant, rabbit. Eye irritation : Mild irritant, rabbit. Sensitisation : Did not cause sensitization on laboratory animals. Other : Repeated dose toxicity Mutagenicity: No data available Carcinogenicity: No data available Teratogenicity: No data available. | |

12) ECOLOGICAL INFORMATION: Information below based on active ingredient:

Bees: LC₅₀ (oral & contact): > 25 ug/kg/bee; Contact >100 ug/bee. Not toxic to bees.

Birds: LD₅₀: for Bobwhite quail & Mallard ducklings > 2000 mg/kg. Dietary LC₅₀ (8d) Bobwhite quail & Mallard ducklings >5 000 mg/kg diet.

Fish: LC₅₀ (96hrs) for Rainbow trout >300 mg/L, Bluegill sunfish > 400 mg/L. Daphnia : LC₅₀ (48h) > 1000 mg/l.

Algae: EC₅₀ (14 d) for green algae (*Selenastrum capricornutum*) 50 mg/L.

Worms: LC₅₀ (14 d) > 16 mg/kg soil.

Persistence: DT50 laboratory (aerobic, 20 °C) 158 days. Photolytic degradation DT50 (pH 7, 22–24 °C) 2.1 days.

Biodegradability: No relevant information available

Bioaccumulative potential

Bioaccumulation: No relevant information available

Mobility in soil: No relevant information available

Other adverse effects:

Additional ecological information: No other effects to be mentioned.

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: 2902

Road Transport ADR/ RID:

Class: 6.1

Packaging group: III

Shipping name: PESTICIDE, LIQUID, TOXIC, N.O.S (Imazethapyr)

Maritime Transport IMDG / IMO:

Marine Pollutant: Yes

Class: 6.1

Packaging group: III

Shipping name: PESTICIDE, LIQUID, TOXIC, N.O.S (Imazethapyr)

Air Transport ICAO/IATA:

Class: 6.1

Packing group: III

Shipping name: PESTICIDE, LIQUID, TOXIC, N.O.S (Imazethapyr)

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

15) REGULATORY INFORMATION:

Labelling according to EC directives:

Hazardous components which must be listed on the label: IMAZETHAPYR

Symbols:

N - Dangerous for the environment

Risk – Phrase (s):

R 20/22 - Harmful by inhalation and if swallowed

R 36/37/38 - Irritating to eyes, respiratory system and skin.

R 40 - Limited evidence of a carcinogenic effect.

R 43 - May cause sensitization by skin contact

R48 - Danger of serious damage to health by prolonged exposure.

R 53 - May cause long-term adverse effects in the aquatic environment

Safety – Phrase (s):

S 2 - Keep out of the reach of children.

S 7 - Keep the container tightly closed

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

S16 - Keep away from sources of ignition. No smoking.

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

S23 - Do not breathe fumes/vapour/spray. S 24/25 - Avoid contact with skin and eyes.

S24 - Avoid contact with the skin.

S 36/37 - Wear suitable protective clothing and gloves.

S 35 - This material and its container must be disposed of in a safe way.

S 57 - Use appropriate containment to avoid environmental contamination.

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.

MERIDIAN AGRITECH MAKES NO REPRESENTATION OR WARRANTIES, EITHER EXPRESSES OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANT ABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MERIDIAN AGRITECH (PTY) LTD WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.