# SAFETY DATA SHEET

According to
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

## Section 1. Identification of the material and the supplier

| | |
|---|---|
| Product: | **Merito** |
| Product Use: | Herbicide |
| Restriction of Use: | Refer to Section 15 |
| New Zealand Supplier: | **Adria Crop Protection Solutions** |
| Address: | 407 State Highway 16<br>Kumeu 0841,<br>Auckland |
| Telephone: | +64 9 412 9817 |
| Fax: | +64 9 412 9807 |
| Website: | www.adria.nz |
| **Emergency No:** | **0800 734 607 (24hr)**<br>**0800 764 766 (National Poison Centre)** |
| Date of SDS Preparation: | 26 October 2023 |

## Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

**EPA Approval No: HSR101586**

**Pictograms**

Signal Word: **Warning**

| Hazard Code | Hazard Statement | GHS Category |
|---|---|---|
| H317 | May cause an allergic skin reaction | Skin sensitisation Cat. 1 |
| H400 | Very toxic to aquatic life | Aquatic Acute Cat. 1 |
| H410 | Very toxic to aquatic life with long lasting effects | Aquatic Chronic Cat. 1 |

| Prevention Code | Prevention Statement |
|---|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children, |
| P103 | Read carefully and follow all instructions. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves. |

| Response code | Response statement |
|---|---|
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P333+P317 | If skin irritation or rash occurs: Get medical help. |
| P321 | Specific treatment (see First aid on this label). |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P391 | Collect spillage. |

| Storage code | Storage statement |
|---|---|
| - | Store in original container, tightly closed and in a locked, dry, cool, and well ventilated area away from foodstuffs. As a Class 9 Substance with Ecotoxicity Classifications, storage must be carried out in such a manner as to prevent contamination of waterways. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS8409) is followed. See Safety Data Sheet for further information. |

| Disposal code | Disposal statement |
|---|---|
| P501 | Refer to Section 13. |

## Section 3. Composition / Information on Hazardous Ingredients

| Ingredients | Content (w/v) | CAS NUMBER |
|---|---|---|
| Pyroxsulam | $\leq$ 3.5 % | 422556-08-9 |
| Cloquintocet-mexyl | $\leq$ 10.3 % | 99607-70-2 |
| Other ingredients | To balance | - |

For the full text of the H-Statements mentioned in this Section, see Section 16.

## Section 4. First Aid Measures

Consult the National Poisons Information Centre (0800 POISON (0800 764 766)) or a doctor in every case of suspected chemical poisoning. Never give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control centre or doctor, or going for treatment.

Routes of Exposure:

If in Eyes Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice. Suitable emergency eye wash facility should be immediately available.

If on Skin Take off contaminated clothing. Wash skin with soap and plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Wash clothing before re-use. Shoes and other leather items which cannot be decontaminated should be disposed of properly.

If Swallowed Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

If Inhaled Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth-to-mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice. If breathing is difficult, oxygen should be administered by qualified personnel.

**Most important symptoms and effects, both acute and delayed**

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

**Treatment:** Repeated excessive exposure may aggravate pre-existing lung disease. Skin contact may aggravate pre-existing dermatitis. Maintain adequate ventilation and oxygenation of the patient. May cause asthma-like (reactive airways) symptoms. Bronchodilators, expectorants, antitussives and corticosteroids may be of help. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. The decision of whether to induce vomiting or not should be made by a physician. If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

## Section 5. Fire Fighting Measures

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|---|---|
| **Hazards from combustion products** | Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. |
| **Suitable Extinguishing media** | Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. General purpose synthetic foams (including AFFF type) or protein foams are preferred if available. Alcohol resistant foams (ATC type) may function. |
| **Recommended protective clothing & Precautions for firefighters** | Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.<br>Keep people away. Isolate fire and deny unnecessary entry. Do not use direct water stream. May spread fire. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this (M)SDS. |

## Section 6. Accidental Release Measures

**Personal precautions:**
Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to section 7: Handling, for additional precautionary measures. Keep up-wind of spill. Ventilate area of leak or spill. Use appropriate safety equipment. For additional information, refer to Section 8: Exposure Controls and Personal Protection.

**Environmental precautions:**
Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12: Ecological Information.

**Spill and Disposal procedures:**
Contain spilled material if possible. Small spills: Absorb with materials such as: Clay. Dirt. Sand. Sweep up. Collect in suitable and properly labeled containers. See Section 13: Disposal Considerations, for additional information.

## Section 7. Handling and Storage

**Precautions for Handling:**

- Avoid contact with eyes, skin, and clothing.
- Avoid breathing vapor or mist.
- Keep out of reach of children.
- Keep container closed.
- Keep away from: heat, sparks, open flame, and direct sunlight.
- Do not swallow.
- No smoking, open flames, or sources of ignition to be permitted in the handling and storage area.
- Wash thoroughly following handling and before eating, drinking, chewing gum, smoking, or using the toilet.

**Precautions for Storage:**

- Store in original container tightly closed and in a locked, dry, cool, well-ventilated area away from foodstuffs, fertilisers, seeds, in direct sunlight or near potable water supplies.
- Do not contaminate water.
- Remove all sources of ignition from the storage area.
- Keep away from children or uninformed persons.
- Avoid extreme temperatures.
- Comply with local regulations.
- Refer to the current standard NZS8409 Management of Agrichemicals.

## Section 8 Exposure Controls / Personal Protection

**WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

| Component | Regulation | Type of listing | Value/Notation |
|---|---|---|---|
| Pyroxsulam | Dow IHG | TWA | 5 mg/m3 Skin sensitizer |

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

**Engineering Controls / Industrial Hygiene**
Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne dust is generated, use local exhaust ventilation controls. Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice.

**Personal Protection Equipment**

| | |
|---|---|
| **Eyes** | Use chemical goggles. |
| **Hands** | Use chemical resistant gloves classified under standard AS/NZS 2161.10: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier |

| | |
|---|---|
| | materials include: Polyethylene. Ethyl vinyl alcohol laminate ("EVAL").Viton. Styrene/butadiene rubber. Polyvinyl chloride ("PVC" or "vinyl"). Examples of acceptable glove barrier materials include: Chlorinated polyethylene. Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR").Butyl rubber. Natural rubber ("latex").When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to AS/NZS 2161.10) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to AS/NZS 2161.10) is recommended.<br>NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier. |
| **Skin** | Body protection (chemical protection suit, boots) must be chosen depending on activity and possible exposure. Decontaminate contaminated clothing, remove, and dispose of in accordance with the manufacturer's instructions |
| **Respiratory** | Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter. |
| **General** | Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated. End users of this product should follow label instructions for personal protection when using this product. |

## Section 9 Physical and Chemical Properties

| | |
|---|---|
| **Appearance** | Liquid |
| **Colour** | Off-white to grey oily liquid |
| **Odour** | Characteristic odour |
| **Odour Threshold** | No data available |
| **pH** | 5.0 – 8.0 |
| **Boiling/Melting Point** | No data available |
| **Freezing Point** | No data available |
| **Flash Point** | No data available |
| **Flammability** | No data available |
| **Upper and Lower Explosive Limits** | No data available |
| **Vapour Pressure** | No data available |
| **Vapour Density** | No data available |
| **Density** | No data available |
| **Water Solubility** | No data available |
| **Partition Coefficient:** | No data available |
| **Ignition Temperature** | No data available |
| **Decomposition Temperature** | No data available |
| **Viscosity** | No data available |
| **Particle Characteristics** | No data available |
| **Surface tension** | No data available |

## Section 10. Stability and Reactivity

| | |
|---|---|
| **Stability of Substance** | This product is unlikely to spontaneously decompose. Store in original containers and keep tightly closed. Store between -5 °C and 25 °C. |
| **Possibility of hazardous reactions** | No information available. |
| **Conditions to Avoid** | Protect from extreme temperatures, direct sunlight, hot surfaces, open flames, and sources of ignition. Active ingredient decomposes at elevated temperatures. |
| **Incompatible Materials** | Strong basic, acidic, or oxidising materials. Store only in the original container. |
| **Hazardous Decomposition Products** | No information available. |

## Section 11 Toxicological Information

**Acute Effects**

| | |
|---|---|
| **Swallowed** | No data available |
| **Dermal** | No data available |
| **Inhalation** | No data available |
| **Eye** | No data available |
| **Skin** | GHS: Skin sensitiser Cat. 1 |

**Chronic Effects:**

| | |
|---|---|
| **Carcinogenicity** | Not classified as carcinogenic |
| **Reproductive Toxicity** | Not classified as toxicity to reproduction |
| **Germ Cell Mutagenicity** | Not classified as mutagenic |
| **Aspiration** | Not classified as an aspiration hazard |
| **STOT/SE** | No data available |
| **STOT/RE** | No data available |

## Section 12. Ecotoxicological Information

| | |
|---|---|
| **Ecological effects information** | Very toxic to aquatic life with long lasting effects. |
| **Persistence and degradability** | No data available |
| **Bioaccumulation** | No data available |
| **Mobility in Soil** | No data available |
| **Other adverse effects** | No data available |
| **Acute fish toxicity:** | No data available |
| **Toxicity for daphnia and other aquatic inverebrates:** | No data available |
| **Toxicity to algae:** | No data available |
| **Precautions:** | Do not allow to enter waterways. |

## Section 13. Disposal Considerations

**Disposal Method:**

Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal.

AGRECOVERY
www.agrecovery.co.nz

**Empty container precautions:**

Avoid contamination of any water supply with chemical or empty container.

**Precautions or methods to avoid:** Avoid release to the environment.

## Section 14 Transport Information

**This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012**

**Road, Rail, Sea and Air Transport**

| | |
|---|---|
| **UN number** | 3082 |
| **Class - Primary** | 9 |
| **Packing group** | III |
| **Proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CLOQUINTOCET-MEXYL, PYROXSULAM) |
| **Marine pollutant** | Yes |

## Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

## Section 16 Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label. The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the products properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed.

**Glossary**

| | |
|---|---|
| EC50 | Median effective concentration. |
| EEL | Environmental Exposure Limit. |
| EPA | Environmental Protection Authority |
| HSNO | Hazardous Substances and New Organisms. |
| HSW | Health and Safety at Work. |
| LC50 | Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it. |
| LD50 | Lethal dose to kill 50% of test animals/organisms. |
| LEL | Lower explosive level. |
| OSHA | American Occupational Safety and Health Administration. |
| TEL | Tolerable Exposure Limit. |
| TLV | Threshold Limit Value-an exposure limit set by responsible authority. |
| UEL | Upper Explosive Level |
| WES | Workplace Exposure Limit |

References:


1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.

3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to- date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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