

**1. Identification of the Substance/Mixture and Supplier.**

Product name:	Sencor
Recommended Use:	Selective herbicide weed control.
Company details:	Bayer New Zealand Limited, 3 Argus Place, Glenfield, Auckland, New Zealand.
Telephone:	0800 428 246
Facsimile:	09 441 8645
Emergency telephone:	0800 734 607 Orica SH&E Shared services (24hr)

**2. Hazards Identification.**

Hazard classification:	Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.
Classification and type:	<b>HSNO Class<sup>*</sup></b> 6.1D, 6.4A, 6.9B, 9.1A, 9.2A, 9.3B May be harmful if swallowed. Harmful – may cause eye irritation. Harmful – presumed to/may cause organ damage from repeated oral exposure at high doses. Toxic to aquatic organisms. Very toxic to the soil environment. Toxic to terrestrial vertebrates.
Risk & Safety Phrases:	R22, R36, R48, R50, R56,

**3. Composition/Information on Ingredients.**

Common name: Metribuzin  
Chemical Identity of Ingredients:

**Mixture:**

Ingredient	CAS No.	Content (%w/v)
Metribuzin (iso)	21087-64-9	70.0%
Alkylaryl sulfonate	91078-64-7	2.0%
Methylene-linked condensation product of arylsulphonic acids	90387-57-8	8.0%

**4. First Aid Measures:**

Description of necessary first aid measures:	In case of poisoning by any exposure route contact the National Poisons and Hazardous Chemicals Information Centre, PO Box 913, Dunedin. Phone 0800 764 766, 0800 POISON.
Workplace facilities:	No specific facilities required. Standard emergency equipment must be available.
Hygiene Practices:	Avoid contact with skin and eyes and inhalation of concentration or spray mist. When mixing or applying, wear protective clothing, including face shield, impervious gloves and footwear. If clothing becomes contaminated with product, remove clothing immediately. DO NOT eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing daily after work.
Eye:	If product gets in eyes wash it out immediately with water.
Skin:	If skin contact occurs remove contaminated clothing and wash affected areas thoroughly with soap and water.
Inhaled:	Move person to fresh air and keep at rest until recovered. Apply artificial respiration if necessary.
Ingestion:	When swallowed accidentally, DO not induce vomiting, get medical help. Rinse out mouth and give plenty of water to drink. Ingest activated charcoal.
Treatment:	Treat symptomatically. Gastric lavage, then charcoal (carbo medicalis) and sodium sulphate.

**5. Fire-Fighting Measures.**

Decomposition:	In case of fire hazardous decomposition products may be produced such as: Hydrogen cyanide (hydrocyanic acid) Carbon monoxide (CO) Sulphur dioxide (SO <sub>2</sub> ) Nitrogen oxides (NO <sub>x</sub> )
Extinguishing media:	Water spray, carbon dioxide (CO <sub>2</sub> ), foam, sand
Recommended Protective clothing:	When fighting a major fire wear an air-supplied respirator. Wear protective equipment.

<b>6. Accidental Release Measures.</b>	
Personal Precautions:	<b><i>Emergency Procedures:</i></b> Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and overalls.
Environmental Precautions:	Washings must be prevented from entering surface water drains or waterways.
Procedure for spill:	Keep all bystanders away. Wear goggles, half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves.  Contaminated material must be disposed of in accordance with all local authority requirements. <ul style="list-style-type: none"> <li>• For quantities up to 50kg of product bury in a secure approved landfill site.</li> <li>• For quantities greater than 50kg seek advice from the manufacturer (use emergency contact number) before attempting disposal. Contain in a secure location until disposal method is established.</li> </ul> Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.
Procedure for Disposal:	a) Triple rinsing or preferably pressure rinsing containers with water. Add the rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site. b) Burning of empty containers if circumstances, especially wind direction, permit is an alternative method. Do not burn unless in a suitable incinerator. c) Product or unused spray mix should be disposed of according to label instructions.
<b>7. Handling and Storage.</b>	
Handling Practices:	Avoid contact with skin and eyes and inhalation of concentrate or spray mist. When using, do not eat, drink or smoke. Wash face and hands before eating, drinking or smoking.
Conditions for Safe Storage and Store Sire Requirements:	Store in a cool, dry, well ventilated place and protect from sunlight. Avoid temperatures above 40°C.
Packaging:	Store in original container, tightly closed, away from foodstuffs.

<b>8. Exposure Control/Personal Protection</b>	
Components with workplace control parameters:	Metribuzin (iso) TWA: 5mg/m <sup>3</sup>
Engineering measures: Respiratory protection:	Use in well ventilated areas. Where insufficient ventilation, use suitable respiratory protection. Wear suitable protective gloves (e.g. Polyvinyl chloride – PVC). After contamination with product change the gloves immediately.
Eye protection:	Chemical goggles/face protection.
Other protective equipment: Hygiene measures:	Wear suitable protective clothing. Avoid inhaling aerosols and vapours. Avoid contact with eyes and skin. Store work clothes and street clothes separately. Wash hand before breaks and at the end of work. Change contaminated protective clothing. Keep away from food, drinks and tobacco.
<b>9. Physical and Chemical Properties</b>	
Form: Colour: Odour: Solubility in water: pH:	Granular Yellowish to white Slight, product specific Dispersible 5.0 – 7.0 in 1% water
OTHER PROPERTIES Dust explosion class	Capable of causing a dust explosion (modified Hartmann tube)
Impact Sensitivity:	Not impact-sensitive
Combustion number	CN5 Complete combustion with flames at 20°C
<b>10. Stability and Reactivity</b>	
Stability of the Substance:	Stable under standard conditions.
Materials to Avoid:	Incompatible with bases.
Thermal decomposition:	> 100°C
Hazardous reactions	Not hazardous reactions when stored and handled according to the label. Evolution of ammonia under influence of alkaline substances.

<b>11. Toxicological Information</b>	
Acute oral toxicity:	LD <sub>50</sub> : (rat) >1449mg/kg Test conducted with a similar formulation.
Acute dermal toxicity:	LD <sub>50</sub> : (rat) >2000mg/kg Test conducted with a similar formulation.
Acute inhalation toxicity:	LC <sub>50</sub> : (rat) 4.84mg/L (4h) Test conducted with a similar formulation. Highest attainable concentration.
Skin irritation:	Non-irritant (rabbit)
Eye irritation:	Slight irritant effect
<b>12. Ecological Information</b>	
Acute fish toxicity:	LC <sub>50</sub> : Rainbow trout ( <i>Oncorhynchus mykiss</i> ) 64mg/L Exposure time: 96h
Toxicity for daphnia:	EC <sub>50</sub> : 49.6mg/L: water flea ( <i>Daphnia magna</i> ) Exposure time: 48h The value mentioned relates to the active Metribuzin
Toxicity to algae:	EC <sub>50</sub> : ( <i>Pseudokirchneriella subcapitata</i> ) 0.066mg/L Exposure time: 96h
<b>13. Disposal Considerations.</b>	
Product Disposal:	Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.
Container Disposal:	Triple rinse the empty container adding rinseate to the spray tank. Recycle if possible. If allowed under local authority, burn if circumstances, especially wind direction permit, otherwise crush and bury in an approved local authority facility. Do not use container for any other purpose.
<b>14. Transportation Information.</b>	
Rail/Road (RID/ADR)	UN3077 Environmentally Hazardous Substance, Solid, N.O.S. (metribuzin), Class 9, Packing Group III, Hazchem 2X
Sea (IMDG-Code)	UN3077 Environmentally Hazardous Substance, Solid, N.O.S. (metribuzin), Class 9, Packing Group III, Hazchem 2X. Marine

Air (ICAO/IATA)	Pollutant.  UN3077 Environmentally Hazardous Substance, Solid, N.O.S. (metribuzin), Class 9, Packing Group III, Hazchem 2X
<b>15. Regulatory Information.</b>	
HSNO Approval Number:	HSR000529
HSNO Controls (inc. Tracking):	See <a href="http://www.ermanz.govt.nz">www.ermanz.govt.nz</a> for controls.
Approved Handlers required:	Approved Handlers required at time of use.
ACVM Registration:	P 3406
ACVM Controls:	See <a href="http://www.nzfsa.govt.nz/acvm">www.nzfsa.govt.nz/acvm</a> for registration conditions.
<b>16. Other Information.</b>	
<p>6.1D May be harmful if swallowed.          6.4A Harmful – may cause eye irritation.          6.9B Harmful – presumed to/may cause organ damage from repeated oral exposure at high doses.          9.1A Toxic to aquatic organisms.          9.2A Very toxic to the soil environment.          9.3B Toxic to terrestrial vertebrates.</p> <hr/> <p>R22 Harmful if swallowed.          R36 Irritating to eyes.          R48 Danger of serious damage to health by prolonged exposure.          R50 Very toxic to aquatic organisms.          R56 Toxic to soil organisms.</p>	

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The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.