


## Endure

### Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

<b>Product Name:</b>	Endure
<b>Product Code:</b>	7941009 (15Kg)
<b>Recommended Use:</b>	A green coloured pellet used to control slugs and snails
<b>Restrictions of Use:</b>	Refer to Section 15
<b>Company Identification:</b>	Ravensdown Limited
<b>Address:</b>	292 Main South Road, Hornby, Christchurch, 8042 PO Box 1049, Christchurch 8011
<b>Customer Centre:</b>	0800 100 123
<b>National Poisons Information Centre:</b>	0800 POISON (0800 764 766)
<b>Emergency Phone Number:</b>	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
<b>Transport Emergency Phone Number:</b>	111 - tell operator what service is needed: Fire, Ambulance or Police
<b>Date of SDS Preparation</b>	12 October 2020

### Section 2: HAZARD IDENTIFICATION

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

<b>EPA Approval No:</b>	HSR007794
<b>Pictograms:</b>	
<b>Signal Word:</b>	Warning

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1D (inh)	H332	Harmful if inhaled.	Acute Tox. 4
6.1E (oral)	H303	May be harmful if swallowed.	Acute Tox. 5
6.8B	H361	Suspected of damaging fertility or the unborn child.	Repr. 2
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2
9.1C	H412	Harmful to aquatic life with long lasting effects.	Aquatic Chronic 3
9.3C	H433	Harmful to terrestrial vertebrates.	

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

<b>Storage Code</b>	<b>Storage Statement</b>
P405	Store locked up.

<b>Disposal Code</b>	<b>Disposal Statement</b>
P501	Dispose of according to Local Regulations or Authorities

### Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
Metaldehyde	108-62-3	5%
Non hazardous materials		To bal

### Section 4: FIRST AID MEASURES

<b>Routes of Exposure:</b>	
<b>If in eyes:</b>	Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
<b>If on skin:</b>	Remove contaminated clothing and wash affected area thoroughly with soap and water. If a large area is affected seek medical assistance.
<b>If ingested:</b>	Never give anything by mouth to an unconscious person. If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766). Seek medical assistance immediately.
<b>If inhaled:</b>	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
<b>Most important symptoms and effects, both acute and delayed</b>	
<b>Symptoms:</b>	
<b>Eyes:</b>	Not applicable.
<b>Skin:</b>	Not applicable.
<b>Ingested:</b>	May be harmful if swallowed.
<b>Inhaled:</b>	Harmful if inhaled.
<b>Chronic:</b>	May cause damage to organs (oral) through prolonged or repeated exposure. Suspected of damaging fertility or the unborn child.
<b>Notes to Doctor:</b>	No specific antidote. Treat symptomatically.

### Section 5: FIRE FIGHTING MEASURES

<b>Hazard Type</b>	Non Flammable
<b>Hazards from combustion products</b>	If involved in a fire, may evolve carbon monoxide.
<b>Suitable Extinguishing media</b>	Water fog, foam, carbon dioxide or dry chemical.
<b>Precautions for firefighters and special protective clothing</b>	Full protective clothing and self-contained breathing apparatus.
<b>HAZCHEM CODE</b>	<b>1Z</b>

### Section 6: ACCIDENTIAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

Wear appropriate protective clothing as detailed in Section 8. Exclude non-essential people from the area.

**Environmental precautions:**

Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

**Methods and material for containment and cleaning up:**

Contain spill, sweep up pellets and place in a sealable waste container or use according to label directions. Dispose of according to Section 13.

### Section 7: HANDLING AND STORAGE

<b>Handling:</b>	<p>Read label before use.</p> <p>Avoid contact with skin and eyes.</p> <p>Obtain special instructions before use.</p> <p>Do not handle until all safety precautions have been read and understood.</p> <p>Do not breathe dust.</p> <p>Use only outdoors or in a well-ventilated area.</p> <p>Avoid release to the environment.</p> <p>Use personal protective equipment as required.</p>
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	Record Keeping: Records of use must be kept.
<b>Storage:</b>	Keep out of reach of children. Store away from incompatible materials listed in Section 10. Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertiliser and seed. Store away from pets, poultry and livestock. Store in accordance with NZS 8409 Management of Agrichemicals This product is subject to signage and secondary containment when stored in quantities of 1000kg or more, either alone or in aggregate with substances of the same hazard classification. For full details refer to NZS 8409 Management of Agrichemicals and HSWA Regulations

## Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

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

Substance	TWA	STEL
	ppm mg/m <sup>3</sup>	ppm mg/m <sup>3</sup>

No ingredients have exposure limits.

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 2019 11<sup>TH</sup> EDITION.

<b>Engineering Controls:</b>	Handle in well ventilated area. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. Avoid inhalation of dust.
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#### Personal Protection Equipment:



<b>Eyes:</b>	When opening the container, preparing to measure, apply and when contact with granules is likely: wear safety goggles.
<b>Skin/Hands:</b>	When opening the container, preparing to measure, apply and when contact with granules is likely: wear waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.
<b>Respiratory:</b>	Respiratory protection should be used if exposed to the product in confined areas.
<b>General:</b>	Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing daily after work.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Pellets (granular)
<b>Colour</b>	Green
<b>Odour</b>	None
<b>Odour Threshold</b>	Not available
<b>pH in aqueous solution</b>	5.86
<b>Boiling Point</b>	Not available
<b>Melting Point</b>	Not available
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	Not available
<b>Flammability</b>	Not flammable
<b>Upper and Lower Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density</b>	Not available
<b>Specific Gravity</b>	Not available
<b>Density</b>	0.7 – 0.9
<b>Water Solubility</b>	Not available
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	Not available

<b>Decomposition Temperature</b>	Not available
<b>Kinematic Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not available

### Section 10: STABILITY AND REACTIVITY

<b>Stability of Substance</b>	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
<b>Possibility of hazardous reactions</b>	Not available
<b>Conditions to Avoid</b>	None known.
<b>Incompatible Materials</b>	None known.
<b>Hazardous Decomposition Products</b>	If involved in a fire, may evolve carbon monoxide.

### Section 11: TOXICOLOGICAL INFORMATION

#### Acute Effects:

<b>Swallowed</b>	May be harmful if swallowed. LD <sub>50</sub> (rat) 283mg/kg for metaldehyde. Large amounts swallowed may cause injury. Symptoms include: nausea, vomiting, gastrointestinal discomfort and diarrhoea. May cause liver damage from repeated oral exposure.
<b>Dermal</b>	Not applicable. LD <sub>50</sub> (rabbit) >5000mg/kg.
<b>Inhalation</b>	Harmful if inhaled. LC <sub>50</sub> (rat) (4hr) 15mg/l for metaldehyde. Some temporary irritation to the respiratory tract may be experienced if dusts are inhaled.
<b>Eye</b>	Not triggered however dust may irritate the eye.
<b>Skin</b>	Not applicable.

#### Chronic Effects:

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Suspected of damaging fertility or the unborn child.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	May cause damage to organs (oral) through repeated or prolonged exposure.

### Section 12: ECOLOGICAL INFORMATION

HSNO Classes: 9.1C = Harmful to organisms.  
9.3C = Harmful to terrestrial vertebrates.

#### Product:

<b>Persistence and degradability</b>	Metaldehyde is aerobically and anaerobically degraded in soil to carbon dioxide and water. It is not readily biodegraded.
<b>Bioaccumulation</b>	Risk of bioaccumulation in aquatic species is low.
<b>Mobility in Soil</b>	No data available.
<b>Other adverse effects</b>	Avoid unintended release into streams and waterways.

**Ecotoxicity:**

Acute Toxicity (rainbow trout) LC<sub>50</sub> (96hr) 75mg/l for metaldehyde

Acute Toxicity (daphnia magna) EC<sub>50</sub> (48hr) >90mg/l for metaldehyde

Acute Toxicity (Algae) EC<sub>50</sub> (96hr) 73.5mg/l for metaldehyde

Acute Toxicity (Quail) LD<sub>50</sub> 170mg/kg for metaldehyde

### Section 13: DISPOSAL INFORMATION

<b>Disposal Method:</b>	Dispose of product only by using according to label or at an approved landfill.
<b>Container Disposal:</b>	Ensure container is completely empty. Burn in an appropriate incinerator if circumstance, such as wind direction and Local Body District Plans allow. Otherwise crush and bury in an approved landfill. Do not use container for any other purpose.
<b>Precautions or methods to avoid:</b>	Do not allow to enter waterways.

### Section 14: TRANSPORT INFORMATION

**This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2012**

## Section 15: REGULATORY INFORMATION

<b>This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017</b>	
<b>EPA Approval Code:</b>	HSR007794
<b>HSNO Classification:</b>	6.1D(inh), 6.1E(oral), 6.8B, 6.9B (oral), 9.1C, 9.3C
<b>HSW (HS) Regulations 2017</b>	<b>Trigger Quantity</b>
Signage Trigger Quantities (Schedule 3)	1000kg (9.1C)
Emergency Response Plan (Schedule 5)	1000kg (9.1C)
Secondary Containment (Schedule 5)	1000kg (9.1C)
Tracking (Schedule 26)	Not required
Certified Handlers	Not required
<b>HSNO Additional Controls (Restrictions of use)</b>	
77A - Maximum application rates	The maximum application rate of this substance shall be 8 kg/ha (0.4 kg a.i./ha), except for when the substance is used on container plants whereby no maximum application rate is set.
77A - Requirements on the colour of a substance or treated materials	This substance must be blue or green in colour.
77A - Requirement for a substance to contain a repellent or bittering agent	This substance shall contain a repellent (bittering agent).
77A -Additional requirements for packaging	This substance shall not be sold in quantities less than 10 kg.
<b>Hazardous Property Controls Notice 2017</b>	
HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides and plant growth regulators
HPC Notice Part 4 Subpart A	Site and storage controls for class 9 substances
HPC Notice Part 3	Hazardous substances in a place other than a workplace.
<b>ACVM Act and Regulations</b>	
See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions	<b>P7818</b>

## Section 16: OTHER INFORMATION

### Glossary

EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	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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Please contact Ravensdown, if further information is required.

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12 October 2025