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1. Identification of the Substance/Mixture and Supplier.

Product name:	Zapp Encore
Other Product Names	Triflumuron, Imidacloprid, N-methyl pyrrolidone
Application:	Pour-On Lousicide for Sheep
ERMA approval:	HSC000301
Company:	Bayer New Zealand Limited, 3 Argus Place, Hillcrest, Auckland 0627.
Telephone:	0800 652 488 (8am – 5pm Monday to Friday)
Facsimile:	0800 229 838
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:	Combustible liquid. Maybe harmful if swallowed. May cause eye and skin irritation. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Very toxic to terrestrial invertebrates. Toxic to the soil environment, terrestrial vertebrates and aquatic life.

3. Composition/Information on Ingredients.

<u>Chemical Entity</u>	<u>CAS No.</u>	<u>Proportion</u>
Imidacloprid	138261-41-3	3.0%
Triflumuron	64628-44-0	2.5%
N-methyl-2-pyrrolidone	872-50-4	30%

Imidacloprid is a chloro nicotinyli; 1-(6-Chloro-3-pyridinyl)methyl-4,5-dihydro-N-nitro-1-H-imidazole-2-amine.
Triflumuron is a benzoyl urea; 2-Chloro-N-(((4(trifluoromethoxy) phenyl)amino)carbonyl)benzamide

4. First Aid Measures.

General Information:	Remove victim from contaminated area. If there is a risk of unconsciousness, position and transport in a stable lateral position.
Skin Contact:	Immediately remove all contaminated clothing. Wash contact areas with soap and water for 15 minutes. Seek medical attention if irritation persists.
Eye Contact:	Immediately hold eyelids apart and rinse for at least 15 minutes. Seek medical assistance.
Ingestion:	Rinse mouth with water. DO NOT induce vomiting. Seek immediate medical assistance
Inhalation:	Remove patient to fresh air, avoid breathing vapours yourself. Blow nose to ensure clear passage of breathing. If not breathing apply mouth-to-mouth resuscitation. Seek medical assistance.
Advice to doctor:	Solvents are harmful if inhaled or swallowed. Imidacloprid is a nicotinic acetylcholine receptor inhibitor. This receptor type is present in low



Further Information:	<p>numbers and has low affinity for imidacloprid in mammals. Systemic toxicity with this product is unlikely but if it occurs would relate to nicotine-like effects. In the event of ingestion apply basic aid, decontamination and symptomatic treatment for possible solvent inhalation into the lungs. If imidacloprid toxicity is suspected check blood pressure and pulse frequently since bradycardia and hypotension are possible. Provide supportive measures for respiratory and cardiac function. Give artificial respiration if signs of paralysis appear. Additional therapeutic measures involve elimination of the substance from the body or acceleration of its excretion (gastrolavage, saline laxatives).</p> <p>Contact the National Poisons and Hazardous Chemicals Information centre in Dunedin, PO Box 913, Dunedin. Phone 0800 764 766, 0800 POISON.</p>
<p>5. Fire-Fighting Measures.</p>	
Extinguishing media and methods:	Sprayed water jet, foam, dry chemical powder or carbon dioxide extinguisher or sand.
Recommended protective clothing:	Fire fighters should wear self contained breathing apparatus in enclosed areas. In well ventilated areas wear full face mask with a combination filter (Offers no protection from carbon monoxide). Fight fire in the early stages if it is safe to do so
Further Information:	Make provisions to contain fire fighting water. Thermal decomposition products include hydrogen chloride, hydrogen cyanide, carbon monoxide, and nitrogen oxides.
<p>6. Accidental Release Measures.</p>	
Spill and leak procedure:	Do not empty into drains or waters. Immediately absorb spill with sawdust, peat or chemical binder. To clean the floor and all objects contaminated by this material, use an aqueous detergent and a small amount of water. Absorb this with hydrated lime and place in a sealable container. Spread hydrated lime over the affected area. Place used cleaning materials into closable receptacles. Avoid breathing in vapours or contact with skin and eyes. Do not eat, drink or smoke during cleanup operation.
<p>7. Handling and Storage.</p>	
Handling:	Obtain special instructions before use. Do not handle until all safety precautions have been read and fully understood. Pour the product using a funnel or other equipment to avoid splashing and glugging.
Storage:	Suitable container materials: HDPE. Keep container tightly closed. Store in a cool, dry, well-ventilated place in its original packaging. Keep containers securely sealed. Check packaging for leaks and other physical damages. Keep out of reach of children. Store below 30°C and away from sources of ignition. Keep away from food, drink and animal feeding stuffs.
<p>8. Exposure Control/Personal Protection</p>	
Engineering measures:	Use in well ventilated area
Respiratory Protection:	Not required under normal conditions of use.
Hand Protection:	Chemical elbow-length butyl rubber gloves should be worn.



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Eye Protection:	Safety chemical goggles should be worn.	
Hygiene measures:	Keep the place of work clean. Avoid contact with product. Keep working clothes separate. Change badly soiled or soaked clothing. Wash hand before breaks and at the end of work. Remove contaminated protective clothing. Keep away from food stuffs, drinks and tobacco.	
Workplace exposure limits:		
Dipropylene glycol methyl ether:	TWA: 606 mg/m ³ (100 ppm)	(OSH 2002)
	STEL: 909 mg/m ³ (150 ppm)	(OSH 2002)

9. Physical and Chemical Properties

Form:	Liquid
Colour:	Blue
Odour:	Mild ether like aroma
Density:	0.982 kg/L at 20°C
Vapour Pressure:	0.4 X 10 ⁻⁹ mbar at 20° C (active constituent)
Solubility in Water:	2.5 X 10 ⁻⁵ g/L at 20° C (active constituent). The formulation is miscible with water.
Flash Point:	88°C (DIN 51758)

10. Stability and Reactivity

Hazardous decomposition products:	Thermal decomposition products include hydrogen chloride, hydrogen fluoride, carbon monoxide, and nitrogen oxides.
Chemical stability:	Product is chemically stable. Product is hygroscopic. Avoid oxidising agents.

11. Toxicological Information

Acute toxicity:	Oral LD ₅₀ (rat) > 5000 mg/kg (of formulation). Dermal LD ₅₀ (rat) > 5000 mg/kg (of formulation).
Skin irritation:	Irritant.
Eye irritation:	Irritant.
Carcinogenic Effects:	Imidacloprid has been shown in animal tests to have no carcinogenic potential. Other ingredients are not classified as carcinogens.
Further information:	Imidacloprid is a chloronicotinyl insecticide that activates the nicotinic acetylcholine receptors in the nervous system of insects.

12. Ecological Information

Octanol/Water Partition Co-efficient	Log Kow = 1.26 at 20°C
Acute fish toxicity:	LC ₅₀ : 237 mg/L (96h); golden orfe (<i>Leuciscus idus</i>), (Active constituent) LC ₅₀ : 211 mg/L (96h); rainbow trout (<i>Salmo gairdneri</i>), (Active constituent)
Aquatic daphnia toxicity:	EC ₅₀ : 0.055 mg/L (48h) (<i>Hyalella azteca</i>)
Aquatic algae toxicity:	IC ₅₀ (growth rate): >10 mg/L (96h); green algae (<i>Scenedesmus subspicatus</i>)
Further information:	Very highly toxic to aquatic invertebrates. Slightly toxic to algae, moderately to slightly toxic to earthworms, moderately to relatively toxic to honeybees. Do not contaminate streams, rivers or waterways with the product or used containers.

13. Disposal Considerations.



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After spill or incident:	Preferably dispose of through use. If this is not possible dispose of in an approved landfill or waste disposal company. Treat product so that it is no longer toxic.
After intended use:	Triple rinse containers, dispose of rinsate in a disposal pit away from desirable plants and their roots, and watercourses. Recycle containers via Agrecovery.

14. Transportation Information.

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3% imidacloprid, 2.5% triflumuron)
UN Number:	3082
Hazard Class:	9
Hazchem Code:	3Z
Packing Group:	III
Flashpoint	88°C (DIN 51758)
Hazardous substances regulations:	Maximum quantity per package permitted on passenger service vehicles 0.1L

15. Regulatory Information.

<p>ACVM Number: A10400</p> <p>HSNO Approval Number: HSC000301</p> <p>HSNO Classification</p> <p>3.1D Flammable Liquid (low hazard).</p> <p>6.3A Substances that are Irritating to the skin.</p> <p>6.4A Substances that are Irritating to the Eye.</p> <p>6.8A Substances that are Known or Presumed Human Reproductive or Developmental Toxics.</p> <p>6.8C Substances that produce toxic human reproductive or developmental effects on or via lactation</p> <p>6.9B (Oral) Substances that are Harmful to Human Target Organs or Systems.</p> <p>9.1A Substances that are Very Ecotoxic in the Aquatic Environment.</p> <p>9.2B Substances that are Ecotoxic in the Soil Environment.</p> <p>9.3B Substances that are Ecotoxic to Terrestrial Vertebrates.</p> <p>9.4A Substances that are Very Ecotoxic to Terrestrial Invertebrates.</p> <p>Controls for hazardous substances:</p> <ul style="list-style-type: none"> • Level 2 Emergency Management Information required when > 0.1 Litre is present in a workplace. • At least 2 x 4.5kg powder fire extinguishers required when >500L in a workplace • Level 3 Emergency Management Plans required when > 100 Litres is present in a workplace. • Where an excess of 10 000 Litres is stored, signage is required for flammable liquid. • Where an excess of 100 Litres is stored, signage is required for ecotoxic substance. • Where an excess of 500 Litres is stored, two fire extinguishers are required. <p>Controls of hazardous substances are based upon current knowledge. Where multiple chemicals are stored, controls will take into account aggregate quantities. Contact an ERMA Approved Test Certifier for further information and guidance.</p>
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16. Other Information.

OSH(2002) – Workplace exposure Standards, effective 2002.

Zapp Encore

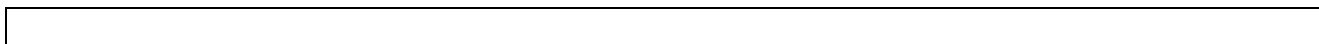


Bayer HealthCare
Animal Health

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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.