

Converge

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Section 1: Identification of the Substance and Supplier

Product name Converge

Recommended useOral drench for the management of internal parasites in sheep & cattle

Company details Schering-Plough Animal Health Ltd

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Emergency telephone 0800 764 766 (0800 POISON) 24 hours human health

0800 243 622 (0800 CHEMCALL) 24 hours

Date of preparation April 2019

Section 2: Hazards Identification

Hazard classifications 6.1D: Acute toxicant (oral)

6.5B: Contact sensitiser

6.6B: Mutagen

6.8B: Reproductive/Developmental toxicant

6.8C: Reproductive/Developmental toxicant - Via Lactation

6.9B: Target organ systemic toxicant

9.1A: Aquatic ecotoxicant9.2C: Soil ecotoxicant9.3C: Vertebrate ecotoxicant9.4A: Invertebrate ecotoxicant

GHS Pictogram:







Signal word Warning

Hazard statement H302: Harmful if swallowed.

H317: May cause an allergic skin reaction. H341: Suspected of causing genetic defects

H361: Suspected of damaging fertility or the unborn child from repeated oral

exposure.

H362: May cause harm to breast-fed children from repeated oral exposure. H373: May cause damage to the liver, nervous, cardiovascular, blood and the

haematopoietic systems through prolonged or repeated oral exposure.

H410: Very toxic to aquatic life with long lasting effects.

H423: Harmful to the soil environment. H433: Harmful to terrestrial vertebrates. H441: Very toxic to terrestrial invertebrates.

Prevention statement P102: Keep out of reach of children.

P103: Read label before use.

P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe mist.

P263: Avoid contact during pregnancy/while nursing.

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.





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P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves.

P281: Use personal protective equipment as required.

Response statement P101: If medical advice is needed, have product container or label at hand.

P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if

you feel unwell.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P308 + P313: IF exposed or concerned: Get medical advice/ attention.

P321: See first aid instruction on the label of the product.

P333 + P313: If skin irritation or rash occurs: Get medical advice/attention. P362 + P364: Take off contaminated clothing and wash before reuse.

P391: Collect spillage.

Storage P405: Store locked up.

Disposal P501: Dispose of product, packaging and waste at an approved landfill or other

approved facility.

Section 3: Composition/Information on Ingredients

Chemical name	CAS number	Concentration
Abamectin	71751-41-2	0.2%
Levamisole hydrochloride	16595-80-5	8%
Citric acid	77-92-9	<10%
Benzyl alcohol	100-51-6	<10%
Sodium selenate	13410-01-0	<1%
Cobalt EDTA	15137-09-4	<10%

Section 4: First Aid Measures

Necessary first aid measures

SKIN CONTACT While wearing protective gloves, carefully remove any contaminated clothing, including shoes, and wash skin thoroughly with soap and water. If irritation or symptoms occur or persist, consult a doctor.

EYE CONTACT Immediately rinse eyes thoroughly with plenty of water. If wearing contact lenses, remove only after initial rinse, and continue rinsing eyes for at least 15 minutes. If irritation occurs or persists, consult a doctor.

INGESTION Rinse mouth and drink a glass of water. Do not induce vomiting unless under the direction of a qualified medical professional or National Poisons Centre. If symptoms persist, consult a doctor.

INHALATION Remove to fresh air and provide oxygen if necessary. If any trouble breathing, get immediate medical attention. Administer artificial respiration if breathing has ceased. If irritation or symptoms occur or persist, consult a doctor.

Required instructions

For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor.





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Notes for medical personnel

The information presented below pertains to the following individual ingredients, and not to the mixture(s). Only information about the ingredients that are expected to contribute significantly to the potential health hazard profile of the formulation(s) are presented:

Levamisole is an anthelmintic and immunostimulant. Acute exposure to levamisole may cause nausea, vomiting, diarrhoea, abdominal pain, dizziness, or headache. Chronic exposure may cause hypersensitivity reactions including fever, flu-like syndrome, arthralgia, muscle pain, skin rashes, or cutaneous vasculitis, CNS effects including headache, insomnia, dizziness, or convulsions, haematological abnormalities including agranolucytosis, leucopenia, or thrombocytopenia, or gastrointestinal effects including abnormal taste in the mouth.

All selenium salts can produce toxicity by ingestion, inhalation, and dermal absorption; however, acute poisonings with selenium and its salts are rare.

Workplace facilities

Emergency showers and eyewashes may be warranted depending on quantity and type of use.

Section 5: Fire Fighting Measures

Type of hazard Not classified as flammable
Fire hazard properties No information available
Regulatory requirements No information available

3Z (Contain spillage)

Extinguishing media and methods

Water, carbon dioxide (CO₂), foam, or dry chemical.

Recommended protective

clothing

Hazchem code

Wear full protective clothing and self-contained breathing apparatus (SCBA).

Section 6: Accidental Release Measures

Personal Precautions Avoid contact with skin, eyes and clothing. Do not touch damaged containers or

spilled material unless wearing appropriate protective clothing.

Environmental Precautions

Prevent spilled material from flowing onto adjacent land or into streams, ponds, or lakes. Avoid release to the environment.

Emergency procedures Wear chemical resistant gloves and overalls, facemask or goggles. Prevent

further spillage. Adsorb spilled product and place in sealable container for disposal. Wash down affected area with water plus detergent. Absorb and collect washings and place in the same sealable container for disposal. Seek advice from the local authority regarding disposal. Avoid contamination of any

water source or soil with product or empty container.





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Section 7: Handling and Storage

Precautions for safe

handling

Avoid contact with skin, eyes, and mucosa. Keep containers adequately sealed during material transfer, transport, or when not in use. See Section 8 (Exposure

Controls) for additional guidance.

Regulatory requirements

Signage required where quantities greater than 100L are present.

Emergency Plan required where quantities greater than 100L are present.

Handling practices

Avoid contact with skin. Keep containers adequately sealed during material transfer,

transport, or when not in use.

Certified handlers

Conditions for safe

storage

Store in original container in a cool, dry, ventilated place away from direct heat or direct sunlight. Keep container sealed when not in use. Keep out of reach of

children.

Not required.

Store site requirements

Store in a cool, dry, well ventilated area, at room temperature between (5°C - 30°C).

Packaging PG III

Section 8: Exposure Control/Personal Protection

Occupational exposure

limits

No WES is set for this substance at this time.

Application in the

workplace

Ensure adequate ventilation. Keep container sealed when not in use.

Exposure standards outside the workplace

No TEL is set for this substance at this time. No EEL is set for this substance at this time.

Personal protection

Wear chemical resistant gloves, facemask or goggles.

Engineering controls

The health hazard risks of handling this material are dependent on many factors, including physical form, duration and frequency of process or task, and effectiveness of engineering controls. Site-specific risk assessments should be conducted to determine the feasibility and the appropriateness of all exposure control measures. Exposure controls for normal operating or routine procedures follow a tiered strategy. Engineering controls are the preferred means of long-term or permanent exposure control. If engineering controls are not feasible, appropriate use of personal protective equipment (PPE) may be considered as alternative control measures. Exposure controls for non-routine operations must be evaluated and addressed as part of the site-specific risk assessment.

Section 9: Physical and Chemical Properties

Appearance A homogeneous purple viscous liquid

Odour No information available

Odour threshhold No information available

pH No information available





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Melting point/freezing

point

No information available

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Initial boiling point and

boiling range

100°C

Flash point No information available

Flammability (solid, gas) No information available

Upper/lower flammability

or explosive limits

No information available

Vapour pressure No information available

Vapour density No information available

Relative density 1.060 at 20°C

Solubility (ies) Water: Miscible

Partition coefficient: n-

octanol/water

No information available

Auto-ignition temperature No information available

Decomposition

temperature

No information available

Section 10: Stability and Reactivity

Stability of the substance Stable under normal conditions.

Conditions to avoid Avoid high temperatures.

Material to avoid Avoid food products.

Hazardous decomposition

products

Carbon oxides (COx), Sulphur oxides (SOx), and Nitrogen oxides (NOx).

Section 11: Toxicological Information

Effects for individual ingredients only

Acute toxicity (Oral)

Abamectin: (Rat) LD50: 8.7-12.8 mg/kg [EPA NZ] Levamisole: (Rat/Mouse)-LD50: 200 mg/kg [EPA NZ] Sodium selenate: LD50: 25 mg/kg/bw [INCLASS] Citric acid: (Mouse)-LD50: 5000 mg/kg [IUCLID 2000] Benzyl alcohol: (Rabbit)-LD50: 1040 mg/kg bw [EPA NZ]

(Dermal)

Citric Acid: Irritating

Benzyl alcohol: (Rabbit)-LD50: 2000 mg/kg bw [EPA NZ]

(Inhalation)

Disodium cobalt EDTA: Respiratory effects seen at 2.4 mg/m3 in female Guinea-





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pigs (LOAEL; increased lung weight, increased retention of lavage fluid).

[ATSDR]

Sodium selenate: Toxic by inhalation [INCLASS]
Citric acid: Irritating to respiratory system. [EPA NZ]

Aspiration hazard No information available

Respiratory irritation Disodium cobalt EDTA: Causes respiratory tract irritation, may cause asthma and

shortness of breath.

Skin corrosion/irritation Disodium cobalt EDTA: Mildly irritating to the skin [EPA NZ]

Citric acid: Skin irritation. [EPA NZ]

Serious eye damage/

irritation

Disodium cobalt EDTA: (Rabbit) Cobalt metal introduced in to rabbit eyes has caused a severe reaction, with abscess involving lens, ciliary body, vitreous

humor and retina. [EPA NZ]

Sodium selenate: Irritating to the eye [EPA NZ]

Citric acid: (Rabbit) Highly irritating to the eye. [EPA NZ]

Benzyl alcohol: (Rabbit) Moderately irritating to the eye. [EPA NZ]

Respiratory or skin

sensitisation

Disodium cobalt EDTA: Respiratory sensitisers, Contact sensitisers [EPA NZ]

Benzyl alcohol: (Human) Contact sensitisers [EPA NZ]

Germ cell mutagenicity Levamisole: Induced chromosome gaps and breaks in human lymphocytes in

vitro and in vivo after volunteers were given 2 mg/kg. No chromosomal damage

occurred in mice given 2.5 mg/kg subcutaneously. [EPA NZ]

Sodium selenate: Fed by gavaging to age-matched male Swiss albino mice and observed after 24 h following a colchicine-fixative-air drying-Giemsa schedule, were found to induce chromosome breaks and spindle disturbances in bone marrow cells. The four concentrations used were fractions of LD50 and the effects were directly proportionate to the concentration of the chemical. [EPA NZ]

Carcinogenicity Disodium cobalt EDTA: Cobalt and cobalt compounds are possibly carcinogenic

to humans. [EPA NZ]

Reproductive toxicity Abamectin: Produce toxic human reproductive or developmental effects on or via

lactation [EPA NZ]

Disodium cobalt EDTA: Cobalt was embryotoxic to rat fetuses when it was admin during the entire gestation (dose of 0.05 mg/kg). The dose of 0.005 mg/kg was non-toxic to females, however the progeny of treated females had a reduced wt.

[EPA NZ]



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Specific organ toxicity

Abamectin: (Oral)- Neurotoxicity (nervous system) [EPA NZ]

Levamisole: EndPoint: LOAEL- Primary Organ: Blood and the Hematopoietic system. The commonest and most severe effect induced by levamisole is agranulacytosis. This can be fatal, particularly if infection occurs but it is reversible. It occurs at relatively low doses even when given on non-consecutive days. No NOEL can be identified and if one exists it probably is extremely small. Consequently all MRL of 0.01 mg/kg is recommended. ADI of 0-6 ug/kg based on LOAEL of 1.25 mg/kg/day haemolytic effects in dogs, safety factor of 200. MRLs of 100 ug/kg in muscle, kidney and fat, and 100 ug/kg for liver. Chronic studies in (previously sensitised) dogs showed evidence of haemolytic effects with a LOAEL of 1.25 mg/kg day. [EPA NZ]

Disodium cobalt EDTA: EndPoint: LOAEL

(Oral)-Cardiovascular system (heart/vascular system).

(Inhalation)- Animals were exposed to the repeated inhalation of the cobalt metal blend used by the cemented carbide industry: a concentration of 20 mg/m3 of cobalt for 3 years produced hyperplasia of the bronchial epithelium and focal fibrotic lesions of the lungs with developing granulomata; daily inhalation of cobalt metal fume composed of approximately equal parts of cobalt, cobalt oxide, and cobaltic-cobaltous oxide did not elicit these reactions. Guinea-pigs developed acute pneumonitis, often rapidly fatal, from the intratracheal injection of cobalt metal or repeated inhalation of a mixture of 75% tungsten carbide and 25% cobalt. [EPA NZ]

Sodium selenate: (Oral)- EndPoint: NOAEL- Primary Organ: Hepatotoxicity (liver) Rats receiving selenium compounds (generally sodium selenite) in their diets show acute, subacute, and chronic pathologic pictures entirely similar to those seen in rats fed poisonous field-grown grain. Rats that received selenium (as sodium selenate) at a dietary level of 100 ppm ate little food and all died in 8-16 days; those receiving 50 ppm all died in 10-97 days. A dietary level of 15 ppm was tolerated for 72 days or more, but food intake was about half of normal. All rats survived a dietary level of 7.5 ppm (about 0.37 mg/kg/day) for 6 months, and their growth was normal. [EPA NZ]

Narcotic effects

No information available





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Section 12: Ecological Information

Effects for individual ingredients only

Aquatic Abamectin:

Eastern Oyster (Crassostrea virginica) EC50-48 hr: 430 ppb (= 0.430 mg/l)

(Fish)- Rainbow trout

Acute: LC50- 96 hr: 3.6 ppb (= 0.0036 mg/l) Chronic: LOEC-0.0093 ppb (=0.0000093 mg/l)

(Crustacean)- Daphnia magna

Acute: EC50-48 hr: 0.34 ppb (= 0.00034 mg/l)

Chronic: NOEC-21 days: 0.03 ppb (= 0.00003 mg/l) [EPA NZ]

Disodium cobalt EDTA:

(Fish) Oncorhynchus mykiss (Rainbow trout, donaldson trout) LC50-96 hr:

1.406, 0.569 - 3.474 mg/l

(Crustacean) Daphnia magna (Water flea) EC50-48 hr: 1.11 mg/l

(Algal)- Spirulina platensis (Blue-green algae) EC50-96 hr: 23.8 mg/l [EPA NZ]

Sodium selenate:

(Crustacean)- Gammarus pseudolimnaeus Scud LC50- 48 hr: 83 ug/l (= 0.083

mg/l)

(Algal)-Selenastrum capricornutum Green algae EC50-96 hr: 200 ug/l (= 0.2

ma/l)

(Fish)-Pimephales promelas Fathead minnow Acute: LC50-96 hr: 690 ug/l (= 0.69 mg/l)

Chronic: NOEC-32 day: 390 ug/l (= 0.39 mg/l) [EPA NZ]

Benzyl alcohol:

(Fish)-Lepomis macrochirus (Fish, fresh water) LC50-96 hr: 10 mg/l (Crustacean)-Daphnia magna (Water flea) EC50-24 hr: 55 mg/L [EPA NZ]

Terrestrial Abamectin: (Rat) LD50-Oral: 8.7-12.8mg/kg [EPA NZ]

Abamectin: (Bee) LD50: 0.002ug/bee [EPA NZ]

Levamisole: (Rat/Mouse) LD50-Oral: 200 mg/kg [EPA NZ]

Sodium selenate: Very ecotoxic to terrestrial vertebrates [EPA NZ]

Soil Abamectin: Very ecotoxic in the soil environment [EPA NZ]

Sodium selenate: Effect of Selenic acid, Disodium salt on Medicago sativa Growth Endpoint: 22 day(s) EC20 of 0.1 mg/kg soil (NR: NR) on Measurement: Number of nodules/nodulated plant roots; Response Site: NR Whole Organism Endpoint: 22 day(s) EC20 of 0.1 mg/kg soil (NR: NR) on Measurement: Weight;

Response Site: Whole Organism Effect of Selenic acid, Disodium salt on

Medicago sativa (Alfalfa) Population Endpoint: 22 day(s) EC20 of 0.1 mg/kg soil

(NR: NR) on Measurement: Biomass; Response Site: Root [EPA NZ] Benzyl alcohol: Photobacterium phosphoreum (Bacteria) EC50- 50 mg/l- 5

minute(s) [EPA NZ]

Persistence and degradability

Abamectin: Rapidly Degradable: No-Breakdown in water: Abamectin is rapidly degraded in water. After initial distribution, its half-life in artificial pond water was 4 days. Its half-life in pond sediment was 2 to 4 weeks [145]. It undergoes rapid photodegradation, with a half-life of 12 hours in water [142]. When tested at pH

levels common to surface and groundwater Sodium selenate: Rapidly Degradable: No Disodium cobalt EDTA: Rapidly Degradable: No

Benzyl alcohol: Rapidly Degradable: Yes- aerobic- predominantly domestic

sewage- Degradation: > 90 % after 30 day





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Bioaccumulative Abamectin: No-Bluegill sunfish-28 day BCF=69

Disodium cobalt EDTA: ND Sodium selenate: Yes

Daphnia magna -Water flea BCF = 3650 Fresh Water, 96 h, Renewal Conc =

0.89 - 0.99 ug/l Benzyl alcohol: No

Mobility in soil Abamectin: DT50>30day: yes

Sodium selenate: Soil DT 50 > 30 days: ND Benzyl alcohol: Soil DT 50 > 30 days: no

Other adverse effects No information available

Section 13: Disposal Considerations

Disposal information Disposal

Dispose of unused contents in a suitable landfill. Where possible, dispose of unused product through AgRecovery Chemicals. Avoid contamination of any water source or the environment with product or empty container.

Container Disposal

Dispose of empty container by puncturing and burying in a suitable landfill.

Where possible, recycle through AgRecovery. Do NOT burn.

Reference Current version of NZS 8409 Management of Agrichemicals

Section 14: Transport Information

UN Number 3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Abamectin)

UN dangerous goods class and subsidiary risk

9

UN Packaging Group PG III

Environmental hazards Marine pollutant

Special precautions when transporting the

substance



Section 15: Regulatory Information

Regulatory status HSNO Approval Code: HSR007899

For a full listing of controls see www.epa.govt.nz

ACVM registration number: A010119

For conditions of registration see www.foodsafety.govt.nz





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Section 16: Other Information

Additional information

Converge is a registered trademark.

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