



SAFETY DATA SHEET

Date of Issue: 17th August, 2020

Issue Number: 3

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: IntenSE Trifecta
OTHER NAMES: -
USE: Copper, cobalt and selenium for animal health.

COMPANY IDENTIFICATION : Bell-Booth Limited
 15 Tiki Place
 Palmerston North
 New Zealand
 tel +64 6 358 9052 fax + 64 6 358 9051
www.bell-booth.co.nz

Emergency Telephone Numbers: 0800 80 90 91
 NATIONAL POISONS CENTRE 0800 764 766
 POLICE, FIRE, AMBULANCE Dial 111

2. HAZARDS IDENTIFICATION

Product is classified as hazardous according to the NZ Hazardous Substance (Classification) Notice 2017.

HSNO Approval: HSR002521 Animal Nutritional and Animal Care Products Group Standard 2017.

HSNO Classifications: 6.1E, 6.3A, 6.4A, 6.5A, 6.5B, 6.7B, 6.8B, 6.9B, 9.1A, 9.2C

Pictograms:



Signal word: DANGER

Hazard Statements:

H303 May be harmful if swallowed.
 H313 May be harmful in contact with skin.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 P333 May be harmful if inhaled.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H351 Suspected of causing cancer.
 H361 Suspected of damaging fertility or the unborn child.
 H373 May cause damage to organs/systems through repeated or prolonged exposure.
 H410 Very toxic to aquatic life with long lasting effects.
 H423 Harmful to the soil environment.

Prevention Statements:

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 mist/spray.
P264 Wash hands thoroughly after handling.
P272 Contaminated clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear eye protection and gloves.
P281 Use personal protective equipment as required.
P285 In case of inadequate ventilation wear respiratory protection.

Response Statements:

P101 If medical advice is needed, have product container or label at hand.
P312 Call a POISON CENTRE or doctor if you feel unwell.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice.
P363 Wash contaminated clothing before re-use.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P308 + P313 IF exposed or concerned: Get medical advice.
P391 Collect spillage.

Storage Statements:

P405 Store locked up.

Disposal Statements:

P501 Dispose of product and containers in compliance with local regulations.

3. COMPOSITION: INFORMATION ON INGREDIENTS

Common name	CAS. No	% w/w
Copper sulphate pentahydrate	7758-99-8	17 -20
Cobalt sulphate heptahydrate	10026-24-1	0.5
Other ingredients	proprietary	balance

4. FIRST AID MEASURES

If exposed or concerned, get medical advice. Have product container or label at hand. For advice contact National Poisons Centre (tel. 0800 764 766) or a doctor

EYES: Hold eyes open and carefully rinse eyes with running water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice if irritation persists.

SKIN: Wash affected area with soap and water. Get medical advice if irritation persists or rash occurs. Wash contaminated clothing before re-use.

INGESTION: Rinse mouth. Give a glass or two of water to drink. Do not induce vomiting. Get medical advice if person feels unwell.

INHALATION: If breathing is difficult, remove to fresh air, keep warm and at rest until recovered. If concerned or experiencing respiratory problems, call a Poison Centre or doctor.

FIRST AID FACILITIES: Eye wash and hand washing facilities.

ADVICE TO DOCTOR: Treat symptomatically.

5. FIRE FIGHTING MEASURES

FLASH POINT: Nonflammable.

FLAMMABLE LIMITS: LFL: Not determined UFL: Not determined
EXTINGUISHING MEDIA: Use water spray, water fog, dry agent, carbon dioxide or foam. Water spray or fog can be used to cool containers.
FIRE & EXPLOSION HAZARDS: Will emit toxic compounds (e.g. oxides of copper, cobalt, selenium and sulphur, and other compounds) if heated to decomposition.
FIRE-FIGHTING EQUIPMENT: Wear self-contained breathing apparatus and personal protection clothing.

6. ACCIDENTAL RELEASE MEASURES

SPILLS: Contain spillage. Prevent from entering drains or other waterways. Wear gloves and eye protection. Recover product and any contaminated absorbents/materials to labelled waste containers that can be sealed. If product cannot be re-used, dispose of to landfill.
DISPOSAL: Use product as per label or get advice from supplier for disposal of unwanted or contaminated material in accordance with local regulations.

7. HANDLING AND STORAGE

HANDLING: Read label before use. Do not eat, drink or smoke when using. Observe good personal hygiene. Wear personal protective equipment. Wash hands after use and before rest or meal breaks. Launder contaminated protective clothing before re-use.
STORAGE: Keep out of reach of children. Store locked up in closed container in dry, well ventilated area, out of direct sunlight. Avoid extremes of heat; store between 2°C and 40 °C. Ensure containers are labelled, protect from physical damage, and keep closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES: Workplace Exposure Standards (WES) have been set for components in this product as of 11th edition of WES values published by WorkSafe November 2019.

	WES-TWA
Copper (Cu), dust and mists	1 mg/m ³
Cobalt (Co), metal dust and fume	
(bio) 6.7B (skin) (sens)	0.02 mg/m ³
Selenium (Se), dust and compounds	0.1 mg/m ³

ENGINEERING CONTROLS: Not required when used outdoors or in well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Face/Eye protection: Wear safety goggles, or glasses with side shields (AS/NZS1337) if risk of exposure to eyes.

Skin protection: Wear gloves, e.g. rubber or nitrile gloves (AS/NZS 2161). Wear overalls to protect clothes and closed in footwear.

Respiratory protection: If risk of inhaling mist/vapour, wear a suitable respiratory device compliant with AS/NZ 1715.

Other: Not required

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue liquid
Odor: Mild

Odor threshold:	Not available
pH:	4
Melting point (°C):	Not available
Boiling point (°C):	Not available
Flash point (°C):	Non-flammable
Flammability (solid, gas):	Not applicable
Upper/lower flammability:	Not applicable
Vapour pressure:	Not available
Vapour density:	Not available
Specific gravity:	1.13 g/ml
Solubility:	Soluble in water
Partition Coefficient: -octanol/water:	Not available.
Autoignition temperature (°C):	Not known
Decomposition temperature:	Not known
Kinematic viscosity:	Not available

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions (temperature, pressure) of storage and use.

CONDITIONS TO AVOID: Extremes of temperature.

MATERIALS TO AVOID: Alkalis.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of metals and sulphur and other unspecified compounds.

HAZARDOUS POLYMERIZATION: Not known to occur.

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects, which might occur if this product is not handled in the recommended manner.

Acute toxicity: Classified as may be harmful if ingested, absorbed through skin or inhaled. Ingestion of large amounts may be toxic resulting in symptoms of vomiting, gastric pain, dizziness, convulsions, shock, coma and possible death.

Aspiration hazard: No information available to indicate aspiration hazard.

Respiratory irritation: May be irritating.

Skin corrosion/irritation: Irritating to skin.

Serious eye damage/irritation: May cause serious irritation to eyes.

Respiratory or skin sensitization: Copper sulphate is classified as contact sensitizer. Cobalt sulphate is also present in a trace amount and is both a respiratory and contact sensitizer.

Germ cell mutagenicity: Not classified.

Carcinogenicity: Cobalt sulphate is a suspected carcinogen.

Reproductive toxicity: Cobalt sulphate identified as suspected of affecting male fertility and/or unborn child

Specific organ toxicity: Components in this mixture are identified as causing adverse effects on target organs or systems. Copper sulphate at high doses may affect the kidneys. Cobalt sulphate may affect the cardiovascular system.

Narcotic effects: No information available.

Toxicity data:

Cobalt sulphate	Sheep, LD ₅₀ 330 mg/kg bw
Copper sulphate	Rat, LD ₅₀ 960 (Cu) mg/kg bw

12. ECOLOGICAL INFORMATION

ECOTOXICITY

IntenSE Trifecta

Aquatic environment: Very toxic to aquatic life with long lasting effect. Do not allow product to contaminate waterways, drains or sewers.

Soil ecotoxicity: Harmful to the soil environment. Use according to label directions.

Terrestrial vertebrates: Not classified.

Terrestrial invertebrates: Not classified.

Ecotoxicological data on components:

Copper sulphate Algae, EC₅₀ 0.0031mg/L

Daphnia magna, LC₅₀ (48 hr) 0.18 mg/L

Oncorhynchus mykiss, LC₅₀ (96 hr) 0.032 mg/L

PERSISTENCE AND DEGRADATION: Mineral salts contain metallic compounds.

POTENTIAL TO BE BIOACCUMULATIVE: No information available to indicate bioaccumulative effects.

MOBILITY IN SOIL: Mineral compounds in this product are soluble in water.

OTHER ADVERSE EFFECTS: No specific information available.

13. DISPOSAL CONSIDERATIONS

Product: Use product as per label directions. Dispose of waste (unwanted product or residues) to landfill in accordance with Regional Authority or local council bylaws.

Packaging: Dispose of empty packaging by crushing and burying in landfill. Do not use for storage of other products.

Special Precautions: No specific information available.

Unsuitable methods: Do not dispose of into drains, sewers or other waterways.

14. TRANSPORT REGULATIONS

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	3077	UN No.	3077	UN No.	3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (COPPER SULPHATE)	Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (COPPER SULPHATE)	Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (COPPER SULPHATE)
DG Class	9	DG Class	9	DG Class	9
Sub. Risk	-	Sub. Risk	-	Sub. Risk	-
Pack Group	III	Pack Group	III	Pack Group	III
Hazchem	2Z	Hazchem	2Z		2Z

Dangerous Goods Segregation

This product is classified as a Dangerous Good Class 9.

Please consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:2012 Transport of Dangerous Goods on Land for information.



15. REGULATORY INFORMATION

Country: New Zealand

Inventory: Components listed.

EPA New Zealand HSNO Approval Code: HSR002521 Animal Nutritional and Animal Care Products Group Standard 2017.

For information on Controls refer to www.epa.govt.nz and www.worksafe.govt.nz.

Trigger quantities :

Safety Data Sheet: Required for any quantity.

Management in accordance with HSW HS Regulations: 1000 L

Secondary containment and emergency response plan: 100 L

Threshold quantity for signage: 100 L

16. OTHER INFORMATION

Date of Issue: 17th August 2020

Reasons for Issue: Revision of SDS (5 yearly review).

Replaces: SDS dated 4th June 2015

Abbreviations:

bw	body weight
EEL	Environmental Exposure Limit
EPA	Environmental Protection Authority
LD ₅₀	Dose lethal to 50% of population
NOAEL	No observed adverse effect level
NZS	New Zealand Standard
TWA	Time weighted average
WES	Workplace Exposure Standard

References: Supplier Safety Data Sheets
CCID; www.epa.govt.nz

Other information:

Before using any product, read its label carefully and ensure that you understand its contents. This information is, to the best of our knowledge and belief, accurate and reliable at the date of publication. The information relates only to the specific material designated and may not be valid for such material if it is used in combination with any other material(s). Bell-Booth Limited disclaims any liability for loss or damage suffered from the use of this information. This does not affect your statutory rights. It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for his/her own particular use.

END of SAFETY DATA SHEET