



SAFETY DATA SHEET

Date of Issue: 30th August, 2021
Issue Number: 4

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: IntenSE 240 PKE Blend

OTHER NAMES: IntenSE 240 PKE Powder Blend

USE: Mineral supplement.

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 Hazardous Substance (Hazard Classification) Notice 2020.

HSNO Approval:

HSR002521 Animal Nutritional and Animal Care Products Group Standard 2020.

HSNO Classifications:

Acute oral toxicity Category 4, Respiratory sensitisation Category 1, Skin sensitisation Category 1, Germ cell mutagenicity Category 2, Carcinogenicity Category 2, Reproductive toxicity Category 2, Specific target organ - repeated exposure Category 2, Serious eye damage Category 1, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1, Hazardous to soil organisms, Hazardous to terrestrial vertebrates.

Pictograms:



Signal word: DANGER

Hazard Statements:

H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341 Suspected of causing genetic defects.
H351 Suspected of causing cancer.

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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.
H433 Harmful to terrestrial vertebrates.

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 dust.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
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 respirator protection (respiratory fitted with particulate filter).

Response Statements:

P101 If medical advice is needed, have product container or label at hand.
P301 + P312 IF SWALLOWED: Immediately call a POISON CENTRE or doctor.
P330 Rinse mouth.
P314 Get medical attention 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.
P304 + P341 IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTRE or doctor.
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
Sodium chloride	7647-14-5	60 - 80
Zinc sulphate heptahydrate	7446-20-0	10 - 20
Manganese sulphate	10034-96-5	1 - 3
Boric acid	10043-35-3	1 - 3
Citric acid	77-92-9	1 - 5
Cobalt sulphate heptahydrate	10026-24-1	<1
Sodium selenate	13410-01-0	≤ 0.1
Other ingredients *	proprietary	< 3

* do not affect classification of mixture

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.

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 dry agent, carbon dioxide or foam. Water spray or fog can be used to cool containers or on surrounding materials.

FIRE & EXPLOSION HAZARDS: Will emit toxic compounds (e.g. oxides of copper, cobalt, selenium oxides 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. Wear respiratory protection to avoid breathing dust. Recover product and any contaminated materials to 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 or local council to dispose 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. Do not breathe dust. Wash hands after use and before rest or meal breaks. Launder contaminated protective clothing before re-use.

STORAGE: Keep out of reach of children and prevent access by pets/domestic animals. Store locked up in dry, well-ventilated area, out of direct sunlight. Avoid extremes of heat; store between 2°C and 40 °C. Avoid exposure of product to water and high humidity as will absorb moisture and change colour. Ensure containers are labelled, protect from physical damage, and keep closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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EXPOSURE GUIDELINES: Workplace Exposure Standards (WES) have been set (November 2020) for components in this product.

	WES-TWA
Cobalt (Co), metal dust and fume (bio) 6.7B (skin) (sens)	0.02 mg/m ³
Manganese (Mn), fume, dust and compounds	1 mg/m ³
Selenium (Se), dust and mists	0.1 mg/m ³
Zinc oxide dust	10 mg/m ³
Particulates, not otherwise classified	10 mg/m ³ (inhalable dust) 3 mg/m ³ (respirable dust)

ENGINEERING CONTROLS: Not required when used outdoors or in a 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 gloves (AS/NZS 2161). Wear overalls to protect clothes and closed in footwear.

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

Other: The following Standards provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZS 1715, Protective Gloves: AS 2161, Occupational Protective Clothing: AS/NZS 4501, Industrial Eye Protection: AS1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS2210.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Crystalline powder. Mainly opaque white with blue, dark red, pink or brown flecks or particles.
Odor:	Odorless
Odor threshold:	Not available
pH:	Not available.
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
Relative density:	Not available
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: High temperatures, moisture, sunlight, dust generation, static discharges, ignition sources and incompatible substances.

MATERIALS TO AVOID: Oxidizing materials, strong acids, reducing agents, organic

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materials, acetic anhydride, alkalis, carbonates, hydroxides.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, selenium 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 harmful by ingestion. Symptoms may include nausea, vomiting, gastrointestinal disturbances, abdominal pain and diarrhea. Ingestion of large amounts may be toxic.

Aspiration hazard: No information available to indicate aspiration hazard.

Respiratory irritation: Dust may be irritating if inhaled.

Skin corrosion/irritation: Mildly irritating to skin.

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

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

Germ cell mutagenicity: Sodium selenate is classified as suspected of causing genetic defects.

Carcinogenicity: Cobalt sulphate is a suspected carcinogen.

Reproductive toxicity: Cobalt sulphate and boric acid 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.

Narcotic effects: No information available.

Toxicity data:

Boric acid	Mouse, LD ₅₀ 2668 mg/kg b.w.
Cobalt sulphate	Sheep, LD ₅₀ 330 mg/kg bw
Manganese sulphate	Rat, LD ₅₀ 782 mg/kg b.w.
Sodium chloride	Rat, LD ₅₀ 3000 mg/kg bw
Zinc sulphate heptahydrate	Rat, LD ₅₀ 1000 – 2000 mg/kg b.w

12. ECOLOGICAL INFORMATION

ECOTOXICITY

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

Soil ecotoxicity: Harmful in the soil environment.

Terrestrial vertebrates: Harmful to terrestrial vertebrates.

Terrestrial invertebrates: Not classified.

Ecotoxicological data on components:

Zinc sulphate	<i>Daphnia hyalina</i> , LC ₅₀ (48 hr) 0.098 mg/L
	Algae EC ₅₀ 0.44 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

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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 (CONTAINS ZINC SULPHATE)	Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (CONTAINS ZINC SULPHATE)	Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (CONTAINS ZINC 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 2020.

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

Safety Data Sheet:	Any quantity
Restricted to workplace only:	No
Quantity that requires management in accordance with HSW HS Regulations:	1000 kg
Quantity for secondary containment and emergency response plan:	100 kg
Quantity for signage:	100 kg
Certified Handler:	No

16. OTHER INFORMATION

Safety Data Sheet: IntenSE PKE Blend

Date: 30th August, 2021

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Date of Issue: 30th August 2021
Reasons for Issue: Add corrosive pictogram, update HSNO classifications to GHS descriptions, add more information about HSNO Controls.
Replaces: 6th March 2020

Abbreviations:

bw	body weight
EEL	Environmental Exposure Limit
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms
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