



**SAFETY DATA SHEET**  
**MULTIPLE PRO**

**SDS # :** NP-0242-NZ-A  
**Revision date:** 2020-10-12  
**Company:** FMC Agro Ltd  
**Format:** AP  
**Version** 1.03

**Section 1: PRODUCT AND COMPANY IDENTIFICATION**

**Product Name** MULTIPLE PRO  
**Product Code(s)** NP-0242-NZ-A  
**Recommended Use:** A micronutrient suspension concentrate for use in agriculture.  
**Restrictions on use** Use as recommended by the label.

**Manufacturer** FMC Agro Limited  
Rectors Lane  
Pentre  
Flintshire  
CH5 2DH  
United Kingdom  
Tel: + 44 1244 537370  
E-mail:  
fmc.agro.uk@fmc.com

**Importer**  
Lonza NZ Limited  
15 Hudson Road  
New Plymouth

**Supplier** FMC Agro Limited  
Rectors Lane  
Pentre  
Flintshire  
CH5 2DH  
United Kingdom  
Tel: + 44 1244 537370  
E-mail: fmc.agro.uk@fmc.com

**Emergency telephone**

NZ Poisons Information Centre Ph: 0800 764766  
24-hour Medical Emergency: 0800 111174  
Transport Emergency: 0800 387668

**Section 2: HAZARDS IDENTIFICATION**

**GHS Classification**

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001  
Classified as a Dangerous Good according to NZS 5433

Acute toxicity - Oral	6.1E (HSNO) Category 5 (UN GHS)
Serious eye damage/eye irritation	6.4A (HSNO) Category 2A (UN GHS)
STOT - single exposure	6.9B (HSNO) Category 1 (UN GHS)
Specific target organ toxicity — repeated exposure	6.9B (HSN) Category 1 (UN GHS)
Acute aquatic toxicity	9.1A (HSNO) Category 1 (UN GHS)
Chronic aquatic toxicity	9.3C (HSNO) Category 1 (UN GHS)

**Label Elements**

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001  
Classified as a Dangerous Good according to NZS 5433



Signal Word

**WARNING**

**Hazard Statements**

HSNO Classification:

- 6.1E (O) - Acutely toxic, oral - Aspiration hazard
- 6.4A - Irritating to the eyes
- 6.9B (O, I) - Acutely toxic, oral and inhalation hazard: Harmful to human organs or systems
- 9.1A - Very ecotoxic in the aquatic environment
- 9.3C - Harmful to terrestrial vertebrates

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

- H303 - May be harmful if swallowed
- H319 - Causes serious eye irritation
- H371 - May cause damage to organs
- H373 - May cause damage to organs through prolonged or repeated exposure
- H410 - Very toxic to aquatic life with long lasting effects

**Precautionary Statements - Prevention**

- P260 - Do not breathe dust/fume/gas/mist/vapours/spray
- P264 - Wash face, hands and any exposed skin thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- P273 - Avoid release to the environment
- P280 - Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

- P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P308 + P311 - IF exposed or concerned: Call a POISON CENTRE or doctor
- P314 - Get medical advice/ attention if you feel unwell
- P337 + P313 - If eye irritation persists: Get medical advice/ attention
- P391 - Collect spillage

**Precautionary Statements - Storage**

- P405 - Store locked up

**Precautionary Statements - Disposal**

- P501: Dispose of contents/container as hazardous waste in accordance with local regulations.

**Other Information**

Group Standard Product assigned to: Fertilisers (Subsidiary Hazard) Group Standard 2017 - HSR002571

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001  
 Classified as a Dangerous Good according to NZS 5433

Chemical name	CAS-No	Weight percent
Copper(+1) oxide	1317-39-1	1-10
Zinc oxide	1314-13-2	1-10
ethane-1,2-diol	107-21-1	1-10

**Section 4: FIRST AID MEASURES**

**Inhalation** Remove person from exposure ensuring one's own safety while doing so.

**Skin Contact** Wash off immediately with soap and plenty of water. If symptoms persist, call a doctor.

**Eye Contact** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Call a doctor if irritation persists.

**Ingestion** Rinse mouth. Do NOT induce vomiting. Get medical attention if symptoms occur.

**Most important symptoms and effects, both acute and delayed**

Skin contact: May see mild irritation at the site of contact.

Eye contact: Possible irritation and redness.

Ingestion: Possible irritation of the throat.

Inhalation: May experience irritation of the throat with a feeling of tightness in the chest.

Delayed/Immediate effects: Immediate effects can be expected after short-term exposure. May cause an allergic reaction in individuals already sensitised to 1,2-Benzisothiazolin-3-one.

Use personal protective equipment. See Section 8 for more detail.

**Indication of immediate medical attention and special treatment needed, if necessary** Eye bathing equipment should be available on the premises. Show this safety data sheet to the doctor in attendance.

**Section 5: FIREFIGHTING MEASURES**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Cool containers / tanks with water spray.

**Unsuitable extinguishing media** No information available

**Specific Hazards Arising from the Chemical** Toxic fumes may be released in fire situations.

**Hazardous Combustion Products** Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).

**Protective equipment and precautions for firefighters** As in any fire, wear self-contained breathing apparatus and full protective gear

**Section 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** For personal protection see section 8. Stop leak if you can do it without risk. In case of spill, avoid contact. Isolate area and keep out animals and unprotected persons. In the case of

large spills (1 ton or more), alert the appropriate authorities.

**Other** For further clean-up instructions, call Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

**Environmental Precautions** Do not discharge into drains or rivers. Contain the spillage using bunding. Accidental release into water courses must be alerted to the appropriate regulatory body.

**Methods for Containment** Surface drains within close vicinity of the spill should be covered. Dike to confine spill and absorb with non-combustible absorbent such as clay, sand or soil.

**Methods for cleaning up** Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see Section 13).

**Section 7: HANDLING AND STORAGE**

**Handling** Use only in area provided with appropriate exhaust ventilation.

**Storage** Protect from freezing. Store above 5°C. Keep in a dry, cool and well-ventilated place. Keep away from direct sunlight. Keep away from heat. Keep out of reach of children and animals. Keep away from food, drink and animal feedingstuffs.

**Materials to avoid** Strong oxidising agents, Strong acids.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Limits**

Component	China	Japan	Korea	Australia	Taiwan
Zinc oxide 1314-13-2 ( 1-10 )	TWA: 3 mg/m <sup>3</sup> STEL: 5 mg/m <sup>3</sup>	OEL: OEL: 4 mg/m <sup>3</sup> OEL: 1 mg/m <sup>3</sup>	STEL: 10 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	STEL 10 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup> TWA 5 mg/m <sup>3</sup>	STEL 10 mg/m <sup>3</sup>
ethane-1,2-diol 107-21-1 ( 1-10 )	TWA: 20 mg/m <sup>3</sup> STEL: 40 mg/m <sup>3</sup>		Ceiling: 100 mg/m <sup>3</sup>	STEL 40 ppm STEL 104 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup> TWA 20 ppm TWA 52 mg/m <sup>3</sup>	Ceiling 50 ppm Ceiling 127 mg/m <sup>3</sup> STEL 15 mg/m <sup>3</sup>

**Engineering measures** Ensure adequate ventilation, especially in confined areas. The floor of the storage room must be impermeable to prevent the escape of liquids.

**Personal protective equipment**

**Respiratory Protection** Not required under normal use.

**Hand Protection** Protective gloves. Impervious butyl rubber gloves. Wear chemical protective gloves made of materials such as nitrile or neoprene.

**Eye/Face Protection** Safety glasses with side-shields. Provide emergency on-site eyewash.

**Skin and Body Protection** Wear protective gloves/clothing.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State** Liquid  
**Appearance** Liquid  
**Odour** Barely perceptible  
**Colour** Red brown  
**Odour threshold** No information available  
**pH** 8.0 - 11.0

<b>Melting point/freezing point</b>	No information available
<b>Boiling point/boiling range</b>	No information available
<b>Flash point</b>	No information available
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available
<b>Flammability Limit in Air</b>	
<b>Upper flammability limit:</b>	No information available
<b>Lower flammability limit</b>	No information available
<b>Vapour pressure</b>	No information available
<b>Vapour density</b>	No information available
<b>Specific gravity</b>	1.68 - 1.72
<b>Water solubility</b>	Soluble in water
<b>Solubility(ies)</b>	No information available
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity, kinematic</b>	No information available
<b>Viscosity, dynamic</b>	No information available
<b>Oxidising properties</b>	Non-oxidizing (by EC criteria)
<b>Molecular weight</b>	No data available
<b>Density</b>	No information available
<b>Bulk density</b>	No information available

**Section 10: STABILITY AND REACTIVITY**

<b>Reactivity</b>	None under normal use conditions
<b>Stability</b>	Stable under recommended storage conditions
<b>Hazardous reactions</b>	None under normal processing. Decomposition may occur on exposure to conditions or materials listed below.
<b>Hazardous polymerisation</b>	Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	Heat.
<b>Incompatible products</b>	Strong oxidising agents, Strong acids.

**Hazardous Decomposition Products** May emit toxic fumes under fire conditions. See Section 5.2 for more information.

**Section 11: TOXICOLOGICAL INFORMATION**

**Acute toxicity**

**Product Information**

**Numerical measures of toxicity - Product Information**

**LD50 Oral** > 3000 mg/kg (rat) Acute Toxicity Estimate (ATE)

Chemical name	LD50 Oral	LD50 Dermal	Inhalation LC50
Copper(+1) oxide (1317-39-1)	470 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	5 mg/L ( Rat ) 4 h
Zinc oxide (1314-13-2)	> 5000 mg/kg (rat)		
ethane-1,2-diol (107-21-1)	= 4700 mg/kg (rat)	= 10600 mg/kg (rat) = 9530 µL/kg (rabbit)	

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Sensitisation</b>	No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH)
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Symptoms</b>	Skin contact: May see mild irritation at the site of contact.
	Eye contact: Possible irritation and redness.
	Ingestion: Possible irritation of the throat.
	Inhalation: May experience irritation of the throat with a feeling of tightness in the chest.
	Delayed/Immediate effects: Immediate effects can be expected after short-term exposure, May cause an allergic reaction in individuals already sensitised to 1,2-Benzisothiazolin-3-one.
<b>Aspiration hazard</b>	This product presents an aspiration pneumonia hazard.

**Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity**

Very toxic to aquatic life.  
 The product can be harmful to terrestrial vertebrates.

<b>Persistence and degradability</b>	No information available.
<b>Bioaccumulation</b>	No information available.
<b>Mobility</b>	No information available.
<b>Other Adverse Effects</b>	Very toxic to aquatic organisms.

**Section 13: DISPOSAL CONSIDERATIONS**

<b>Waste disposal methods</b>	Triple rinse empty container placing rinse water in the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot or crush and bury in an approved landfill. Dispose of product only by using according to the product label, or at an approved landfill or disposal facility.
<b>Contaminated Packaging</b>	Dispose of in accordance with federal, state and local regulations.

**Section 14: TRANSPORT INFORMATION**

<b><u>IMDG/IMO</u></b>	
<b>UN/ID no</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s (copper (I) oxide; zinc oxide)
<b>Hazard class</b>	9
<b>Packing Group</b>	III

**MULTIPLE PRO**

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**Special Provisions** No special precautions.  
Tunnel code: E  
**Environmental Hazards** Transport category: 3  
Yes

**ICAO/IATA**

**UN/ID no** UN3082  
**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s (copper (I) oxide; zinc oxide)  
**Hazard class** 9  
**Packing Group** III  
**Special Provisions** No special precautions.  
Tunnel code: E  
Transport category: 3  
**Environmental Hazards** Yes

**ADG****Special Transport Requirements**

Marine Pollutants in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code and IATA special provision A197. If the product meets these special provisions, it may be shipped in New Zealand as a non-dangerous goods under provisions in NZS 5433 code which accepts IMDG and IATA classification.

<b>Section 15: REGULATORY INFORMATION</b>
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**International Inventories**

A food, food additive, drug, cosmetic, or device, when manufactured, processed or distributed in commerce for use as a food, food additive, drug, cosmetic, or device may not be subject to local notification requirements. Check local regulations for more information.

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Copper(+1) oxide 1317-39-1	X	X	X	X	X	X	X	X
Zinc oxide 1314-13-2	X	X	X	X	X	X	X	X
ethane-1,2-diol 107-21-1	X	X	X	X	X	X	X	X

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

<b>Section 16: OTHER INFORMATION</b>
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**Prepared By** FMC Corporation

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Revision note SDS sections updated.

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**End of Safety Data Sheet**