



SAFETY DATA SHEET MULTIPLE PRO

SDS #: NP-0242-NZ-A
Revision date: 2020-06-04
Company: FMC Agro Ltd
Format: AP
Version 1.01

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	<p>Skin contact: May see mild irritation at the site of contact.</p> <p>Eye contact: Possible irritation and redness.</p> <p>Ingestion: Possible irritation of the throat.</p> <p>Inhalation: May experience irritation of the throat with a feeling of tightness in the chest.</p> <p>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.</p>
	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 ₂).
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
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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 ³ STEL: 5 mg/m ³	OEL: OEL: 4 mg/m ³ OEL: 1 mg/m ³	STEL: 10 mg/m ³ TWA: 2 mg/m ³ TWA: 5 mg/m ³	STEL 10 mg/m ³ TWA 10 mg/m ³ TWA 5 mg/m ³	STEL 10 mg/m ³
ethane-1,2-diol 107-21-1 (1-10)	TWA: 20 mg/m ³ STEL: 40 mg/m ³		Ceiling: 100 mg/m ³	STEL 40 ppm STEL 104 mg/m ³ TWA 10 mg/m ³ TWA 20 ppm TWA 52 mg/m ³	Ceiling 50 ppm Ceiling 127 mg/m ³ STEL 15 mg/m ³

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 No information available
Odour Barely perceptible
Colour Red brown
Odour threshold No information available
pH 8.0 - 10.0

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

Section 10: STABILITY AND REACTIVITY

Reactivity	None under normal use conditions
Stability	Stable under recommended storage conditions
Hazardous reactions	None under normal processing. Decomposition may occur on exposure to conditions or materials listed below.
Hazardous polymerisation	Hazardous polymerization does not occur.
Conditions to Avoid	Heat.
Incompatible products	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) (Calculated Estimated Acute Toxicity - EAT)

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)	

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

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

Mutagenicity	No information available.
Carcinogenicity	Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH)
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Symptoms	<p>Skin contact: May see mild irritation at the site of contact.</p> <p>Eye contact: Possible irritation and redness.</p> <p>Ingestion: Possible irritation of the throat.</p> <p>Inhalation: May experience irritation of the throat with a feeling of tightness in the chest.</p> <p>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.</p>
Aspiration hazard	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.

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

Section 13: DISPOSAL CONSIDERATIONS

Waste disposal methods	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.
Contaminated Packaging	Dispose of in accordance with federal, state and local regulations.

Section 14: TRANSPORT INFORMATION

<u>IMDG/IMO</u>	
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

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

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.

Section 15: REGULATORY INFORMATION

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/NDL - 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

Section 16: OTHER INFORMATION

Prepared By FMC Corporation

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Revision date: 2020-06-04

Revision note: Format Change.

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End of Safety Data Sheet

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