

Identification of Substance & Company

Product

Product name Shoof Sachets (Copper Sulphate)

HSNO approval HSR100757

Approval description Veterinary Medicines (Limited Pack Size, Finished Dose) Group Standard

2020 3077

UN number 3
DG class 9

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S.

(contains copper sulphate)

Packaging group

Hazchem code 2Z

Uses Hoof care product

Company Details

Company Shoof International Ltd

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 Website
 www.shoof.co.nz
 www.shoof.com.au

NZ Emergency Telephone Number: 0800 POISON (0800 764 766)
Poisons Information Centre – Australia: 13 11 26

2. Hazard Identification

Approval

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR100757, Veterinary Medicines (Limited Pack Size, Finished Dose) Group Standard 2020): The substance has been classified as hazardous according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

GHS 7 Classes Hazard Statements

Acute oral toxicity Category 4
Skin irritation Category 2
Eye irritation Category 2
Skin sensitisation Category 1
H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H317 - May cause an allergic skin reaction.

STOT (RE) Category 2 H373 - May cause damage to organs through prolonged or repeated exposure.

Aquatic acute Category 1 H400 - Very toxic to aquatic life.

Aquatic chronic Category 1 H410 - Very toxic to aquatic life with long lasting effects.

Hazardous to terrestrial vertebrates H433 - Harmful to terrestrial vertebrates.

*STOT - Specific target organ toxicity

SYMBOLS

WARNING



Other Classifications

There are no other classifications that are known to apply.

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Precautionary Statements

Prevention P102 - Keep out of reach of children.

P103 - Read label before use. P260 - Do not breathe dust.

P264 - Wash hands thoroughly after handling.

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

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

P273 - Avoid release to the environment.

P280 - Wear protective gloves/eye protection/face protection.

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

P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

P330 - Rinse mouth.

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

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse. P314 - Get medical advice/attention if you feel unwell.

P309+P311 - IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician.

P391 - Collect spillage. P405 - Store locked up.

Disposal P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
Copper Sulphate pentahydrate	7758-99-8	100%

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. First Aid

Storage

General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service). IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician.

Recommended first aid

Ready access to running water is required. Accessible eyewash is required.

facilities

Exposure

Swallowed IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse

mouth.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin contact IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get

medical advice/attention. Wash contaminated clothing before reuse. Get medical

advice/attention if you feel unwell.

Inhaled Generally, inhalation of dusts is unlikely to result in adverse health effects. If coughing,

dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for

transport and contact a doctor.

Advice to Doctor

Treat symptomatically

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5. Firefighting Measures

Fire and explosion hazards:

Suitable extinguishing

substances:

Carbon dioxide, extinguishing powder, foam, fog sprays.

Unsuitable extinguishing

substances:

Unknown.

Products of combustion:

Oxides of sulphur, copperand smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive

There are no specific risks for fire/explosion for this chemical. It is non-flammable.

mixtures.

Protective equipment:

Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat

and eye protection.

Hazchem code:

2Z

Accidental Release Measures

Containment If greater than 100kg is stored, secondary containment and emergency plans to manage

any potential spills must be in place. In all cases design storage to prevent discharge to

storm water.

Emergency procedures In the event of spillage alert the fire brigade to location and give brief description of

hazard. Stop the source of the leak, if safe to do so. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your

regional council immediately).

Clean-up method Collect and seal in properly labelled containers or drums for disposal. If contamination of

crops, sewers or waterways has occurred advise local emergency services.

Disposal Sweep up collect recoverable material into labelled containers for recycling or salvage.

Recycle containers wherever possible. This material may be suitable for approved

landfill. Dispose of only in accord with all regulations.

Precautions Avoid dust creation. Wear protective equipment to prevent skin and eye contamination

and the inhalation of vapours. Work up wind or increase ventilation.

7. Storage & Handling

Storage Storage of harmful substances with food. Containers should be

kept closed in order to minimise contamination. Keep from extreme heat and open

flames. Avoid contact with incompatible substances as listed in Section 10.

Handling Keep exposure to a minimum, and minimise the quantities kept in work areas. See

section 8 with regard to personal protective equipment requirements. Avoid skin and eye

contact and inhalation of vapour, mist or aerosols.

8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

NZ Workplace Ingredient WES-TWA WES-STEL Exposure Stds

Copper and its inorganic compounds, as Cu 0.01(r)mg/m³ Not listed

Exposure Standards - Australia

An Exposure Standard (ES) for the mixture has not been established. Below are the exposure standards for the ingredients:

Australian Ingredient ES-TWA ES-STEL

Copper sulphate pentahydrate 1 mg/m³ (as Cu, mists data unavailable

and dusts)

Exposure Stds



Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

Personal Protective Equipment

General

Personal Protective Equipment (PPE) should not be used as the primary means of exposure protection, except in the event of an accident or emergency situation or where all other means of protection have proven to inadequate. Clean PPE after use or dispose of as appropriate. Store PPE for re-use in a clean place. Regular training on the correct use of PPE should be provided. In particular the correct fitting and use of respirators and where applicable the cleaning of respirators should be undertaken.

Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes

are possible. Select eye protection in accordance with AS/NZS 1337.

Eyes



Skin



Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious gloves. Protective gloves or suitably resistant material must comply with AS 2161. Replace frequently. Gloves should be checked for tears or holes before use. Protective clothing must comply with AS 2919, AS3765.1 or AS3765.2. PVC or rubber boots must comply with AS/NZS 2210.2 and selected and maintained in accordance with AS/NS2210.1. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or smoking. Wash hands after handling.

A respirator when airborne concentrations approach the WES (section 8). Respirators must have filters appropriate to the duty and comply with AS/NZS1716 and selected, used and maintained in accordance with AS/NS 1715. Use a respirator with a particulate filter. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order. Fit testing and clear guidelines and training for use and maintenance of PPE are necessary.

WES Additional Information

Not applicable

Respiratory

Physical & Chemical Properties

Appearance blue transparent crystal/granules

Odour no odour
Odour Threshold no data
pH no data

Freezing/melting point 110°C (decomposition)
Boiling Point Dehydrates at 250°C

Flashpoint no data
Flammability no data
Upper & lower flammable limits no data
Vapour pressure no data
Vapour density no data
Specific gravity/density 2.28g/cm³

Solubility soluble in water, 22g/100ml water @ 25°C

Partition coefficient no data
Auto-ignition temperature no data
Decomposition temperature viscosity solid
Particle Characteristics no data



10. Stability & Reactivity

Stability Stable

Conditions to be avoidedContainers should be kept closed in order to avoid contamination. Avoid dust formation.

Incompatible groups Metals, hydrazines, hydroxylamines, magnesium, oxidisers, nitromethane.

Substance Specific none known

Incompatibility

Hazardous decomposition Oxides of sulphur, copper oxides.

products

Hazardous reactions none known

11. Toxicological Information

Summary

IF SWALLOWED: may cause irritation to the gastrointestinal tract.

IF IN EYES: may cause serious eye irritation.

IF ON SKIN: may cause irritation. IF INHALED: dust may be irritating.

CHRONIC TOXICITY: repeated exposure may be harmful to kidneys

Supporting Data

Acute Oral Copper Sulphate pentahydrate LD₅₀: 482mg/kg (rat)

Dermal Copper Sulphate pentahydrate LD₅₀: >2000mg/kg (rat)

Inhaled No data

EyeCopper Sulphate pentahydrate is considered to be an eye irritant.SkinCopper Sulphate pentahydrate is considered to be a skin irritant.SensitisationCopper Sulphate pentahydrate is considered to be a contact sensitizer.

MutagenicityCopper Sulphate pentahydrate is not considered a mutagen.
Carcinogenicity
Copper Sulphate pentahydrate is not considered a carcinogen.

Reproductive / Copper Sulphate pentahydrate is not considered a reproductive or developmental

Developmental toxicant or have any effects on or via lactation.

Systemic Copper Sulphate pentahydrate is considered to be a suspected target organ toxicant,

repeated exposure may be harmful to kidneys.

Aggravation of None known.

existing conditions

12. Ecological Data

Summary

Chronic

Copper Sulphate pentahydrate is considered very ecotoxic towards aquatic organisms with long lasting effects and harmful towards terrestrial vertebrates.

Supporting Data

Aquatic Copper Sulphate pentahydrate LC50: 0.31mg/L (Fish), 0.07mg/L (48hr, Crustaceans),

EC₅₀: 0.07mg/L (algae)

Bioaccumulation No data **Degradability** No data

Soil No evidence for soil toxicity.

Terrestrial vertebrate See acute toxicity.

Terrestrial invertebrate No evidence of terrestial invertebrates.

Biocidal no data

Environmental effect levels No EELs are available for this mixture or ingredients

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Disposal Considerations

Restrictions There are no product-specific restrictions, however, local council and resource consent

conditions may apply, including requirements of trade waste consents.

Disposal method Disposal of this product must comply with the Hazardous Substances (Disposal) Notice

2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore

rendered non-hazardous before discharge to the environment.

Contaminated packaging Disposal of contaminated packaging must comply with the Hazardous Substances

> (Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible

reuse or recycle packaging.

Transport Information

Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a dangerous good for transport.

UN number: Proper shipping name: **ENVIRONMENTALLY HAZARDOUS** 3077

SUBSTANCE, SOLID N.O.S. (contains

copper sulphate)

Class(es) Packing group: Ш 2Z Precautions: Marine pollutant Hazchem code:

UN number: 3077

ENVIRONMENTALLY HAZARDOUS Proper shipping name:

SUBSTANCE, SOLID N.O.S. (contains

copper sulphate) Ш

Class(es) Packing group:

Precautions: Marine pollutant **EmS** F-A, S-F

IATA

IMDG

UN number: 3077 Proper shipping name: **ENVIRONMENTALLY HAZARDOUS**

SUBSTANCE, SOLID N.O.S. (contains

copper sulphate) Class(es) Packing group:

Precautions: Marine pollutant

Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR100757, Veterinary Medicines (Limited Pack Size, Finished Dose) Group Standard 2020. All ingredients appear on the New Zealand Inventory of Chemicals NZIoC.

Specific Controls

Key workplace requirements are:

SDS To be available within 10 minutes in workplaces storing any quantity.

An inventory of all hazardous substances must be prepared and maintained. Inventory All hazardous substances should be appropriately packaged including substances Packaging

that have been decanted, transferred or manufactured for own use or have been

supplied

Must comply with the Hazardous Substances (Labelling) Notice 2017. Labelling

Emergency plan Required if > 100kg is stored.

Certified handler Not required. Tracking Not required.

Bunding & secondary containment Required if > 100kg is stored. Required if > 100kg is stored. Signage

Location compliance certificate Not required. Flammable zone Not required. Fire extinguisher Not required.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

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Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

16. Other Information

Abbreviations

Approval Code Approval HSR100757, Veterinary Medicines (Limited Pack Size, Finished Dose) Group

Standard 2020 Controls, EPA. www.epa.govt.nz

CAS Number

Unique Chemical Abstracts Service Registry Number

EC₅₀ Ecotoxic Concentration 50% − concentration in water which is fatal to 50% of a test

population (e.g. daphnia, fish species)

EPA Environmental Protection Authority (New Zealand)

GHS Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised

edition, 2017, published by the United Nations.

HAZCHEM Code Emergency action code of numbers and letters that provide information to emergency

services, especially fire fighters

HSNO Hazardous Substances and New Organisms (Act and Regulations)

IARC International Agency for Research on Cancer

LEL Lower Explosive Limit

LD₅₀ Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).

Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population

(usually rats)

NZIoC New Zealand Inventory of Chemicals

STEL Short Term Exposure Limit - The maximum airborne concentration of a chemical or

biological agent to which a worker may be exposed in any 15 minute period, provided the

TWA is not exceeded

STOT RESpecific Target Organ Toxicity – Repeated Exposure
STOT SE
Specific Target Organ Toxicity – Single Exposure

TWA Time Weighted Average – generally referred to WES averaged over typical work day

(usually 8 hours)

UELUpper Explosive LimitUN NumberUnited Nations Number

WES Workplace Exposure Standard - The airborne concentration of a biological or chemical

agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring

using procedures that gather air samples in the worker's breathing zone.

References

Unless otherwise stated comes from the EPA HSNO chemical classification information

database (CCID).

Controls EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substances)

Regulations 2017, www.legislation.govt.nz

WES The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available

on their web site – www.worksafe.govt.nz.

Other References: EU ECHA, ingredients SDS's, ChemIDplus, old SDS

Review

DateReason for reviewAugust 2025Not applicable – new SDS

Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely GHS classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 21 1040951.



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