

1. Identification of Substance & Company

Product

Product name Prestolit ABC 50

Product code NA

HSNO approval HSR002573

Approval description Fire Fighting Chemicals Group Standard 2006

UN number NA
Proper Shipping Name NA
Packaging group NA
Hazchem code NA

Uses Fire extinguisher medium

Company Details

Company Tyco New Zealand Ltd Address 8 Henderson Place

> Onehunga Auckland New Zealand +64-9-635-0600

Head Office Tel Number+64-9-635-0600Telephone0800 4 WORMALD

Website www.tycointegratedfireandsecurity.co.nz

Emergency Telephone Number: 0800CHEMCALL - 0800 243 622

2. Hazard Identification

Approval

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002573, Fire Fighting Chemicals Group Standard 2006).

Classes Hazard Statements

6.1D (oral)	Harmful if swallowed.
6.3B	Causes mild skin irritation.
6.4A	Causes eye irritation.
9.1D	Harmful to aquatic life.
9.3C	Harmful to terrestrial vertebra

SYMBOLS

WARNING



Other Classifications

There are no other Classifications that are known to apply.

Precautionary Statements

Keep out of reach of children.

Read label before use.

Wash hands thoroughly after handling.

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

Wear eye/face protection.

Do not breathe dust.

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

Avoid release to the environment.

IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention. Take off contaminated clothing and wash before re-use.



IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. If eye irritation persists: Get medical advice.

IF exposed or concerned: Get medical advice/ attention.

3. Composition / Information on Ingredients

Component	CAS/ Identification	Concentration
Monoammonium phosphate	7722-76-1	50% ± 2
Ammonium sulphate	7783-20-2	36% ± 2
Talc	14807-96-6	3-7%
Silica (quartz) - total	14808-60-7	<3%
Silica (quartz) - respirable crystalline silica dust	14808-60-7	<0.1%
Yellow pigment	NA	<0.04%
Methyl hydrogen polysiloxane	63148-57-2	<1%

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

4. First Aid

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 harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

Recommended first aid

facilities

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

Exposure

Swallowed IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. If vomiting occurs, place

victim face downwards, with the head turned to the side and lower than the hips to

prevent vomit entering the lungs.

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

present and easy to do. Apply continuous irrigation with water for at least 15 minutes

holding eyelids apart. If eye irritation persists: Get medical advice.

Skin contact IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: get medical

advice/attention. Take off contaminated clothing and wash before re-use.

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.

5. Firefighting Measures

Fire and explosion hazards: There are no specific risks for fire/explosion for this chemical. This product does not

Not applicable – this substance is a fire fighting medium.

burn

Suitable extinguishing

substances:

. . .

Unsuitable extinguishing

substances:

Unknown.

Products of combustion: Protective equipment:

Not applicable
This substance is used as a fire fighting medium.

Hazchem code:

NA

6. Accidental Release Measures

Containment If greater than 1000kg 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

stormwater.

Emergency proceduresThe nature and packaging of the this product will prevent a large spill.

In the event of a large spill (>100kg) spillage alert the fire brigade to location and give

brief description of hazard.

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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 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 Wear protective equipment to prevent skin and eye contamination and the inhalation of

dusts. Work upwind from the source of the spill or increase ventilation.

7. Storage & Handling

Storage Avoid storage of harmful substances with food. Store out of reach of children.

Keep from extreme heat and open flames when in storage. 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 dusts. Increase exhaust ventilation.

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 10mg/m³ for dusts and mists when limits have not otherwise been established.

NZ Workplace	Ingredient	WES-TWA	WES-STEL
Exposure Stds	Silica – Crystalline (6.7A): Quartz, respirable dust* silica cristobalite, respirable dust	0.2mg/m ³ **	data unavailable
(2013)		0.1mg/m ³	data unavailable
	Silica-Amorphous	10mg/m ³	data unavailable
	Silica fused (respirable dust)	0.2mg/m ³	data unavailable

^{*} present in <0.1%

Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the workplace exposure standard as practicable by applying the hierarchy of control required by the Health and Safety in Employment Act 1992 (HSE). 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

Eyes Protective eyewear is not normally necessary when using this product. However, it

always prudent to use protective eyewear if dust is likely.

Skin Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious

gloves. Replace frequently. Gloves should be checked for tears or holes before use. Remove protective clothing and wash exposed areas with soap and water prior to eating,

drinking or smoking. Wash contaminated clothing before re-use.

RespiratoryTo prevent irritation a well fitted dust mask should be used (this is not recommended

when exposure is close to the workplace exposure standard). A fine particulate half or full face respirator with a particulate filter and an effective seal is recommended when airborne concentrations approach the workplace exposure standard (section 8).

Workplace Exposure Standard Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance light yellow powder

Odour no data

pHnot determinedVapour pressureno dataViscosityno dataBoiling pointnot determined

Boiling point not determined Volatile materials not determined Freezing / melting point not determined

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^{**}some agencies in other countries have lower standards for crystalline silica.



Solubility slightly soluble in water

Specific gravity / density
Flash point
Danger of explosion
Auto-ignition temperature
Upper & lower flammable limits
Corrosiveness

no data
does not burn
no data
does not ignite
no data
non corrosive

10. Stability & Reactivity

Stability Stable

Conditions to be avoided Containers should be kept closed in order to avoid contamination. Keep from extreme

heat and open flames when not in use.

Incompatible groups None known

Substance Specific sodium hypochlorite (bleach)

Incompatibility

Hazardous decomposition Ammonia, oxides of nitrogen and phosphorous.

products

Hazardous reactions None known

11. Toxicological Information

Summary

IF IN EYES: Fine dust may cause irritation when in direct contact.

IF ON SKIN: direct contact may cause mild skin irritation.

IF INHALED: large amounts of powder in air, e.g. during discharge of the fire extinguisher may cause respiratory irritation and can restrict breathing.

IF SWALLOWED: may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

CHRONIC EFFECTS: No chronic effects are expected from this mixture.

Supportii	ng Data	
Acute	Oral	Using LD_{50} 's for ingredients, the calculated LD_{50} (oral, rat) for the mixture is between 300 and 2,000 mg/kg. Data considered includes: Ammonium sulphate 640 mg/kg (mouse), 2840mg/kg (rat).
	Dermal	Not considered acutely toxic by dermal contact.
	Inhaled	The substance is not considered acutely toxic if inhaled, however there may be irritation of the respiratory tract if dust is inhaled.
	Eye	The mixture is considered to be an eye irritant. Dust may be an eye irritant (mechanical irritation). Monoammonium phosphate may be irritating to the eye.
	Skin	The mixture is considered to be a mild skin irritant. Monoammonium phosphate may be irritating if in solution.
Chronic	Sensitisation	No ingredient present at concentrations > 0.1% is considered a sensitizer.
	Mutagenicity	No ingredient present at concentrations > 0.1% is considered a mutagen.
	Carcinogenicity	This material does contain crystalline silica, of which <0.1% is in a respirable form. Crystalline silica inhaled in the form of quartz from occupational sources is carcinogenic to humans (IARC Group 1). Crystalline Silica triggers 6.7A classification (confirmed carcinogen). The carcinogenicity of silica is related to long term (e.g., 10 years) inhalation of very fine particulate.
	Reproductive /	No ingredient present at concentrations > 0.1% is considered a reproductive or
	Developmental	developmental toxicant or have any effects on or via lactation.
	Systemic	The dust of this product is not considered to be a target organ toxicant, because of the presence of crystalline silica at less than 1%. Crystalline silica triggers 6.9A classification if it is in the form of a fine respirable dust in an occupational (chronic exposure) setting.

dust may lead to inflammation and scarring of the lung.

of fine crystalline silica dust.

None known.

Silicosis can occur following prolonged exposure (e.g., 10 years) to relatively high levels

Based on limited animal research, it is possible that repeated inhalation of cellulose fibre

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Aggravation of

existing conditions



12. Ecological Data

Summary

This product is considered harmful in the aquatic environment and towards terrestrial vertebrates.

Supporting Data

Aquatic Using EC₅₀'s for ingredients, the calculated EC₅₀ for the mixture is between 1 and 100

mg/L. Data considered includes: Monoammonium phosphate no data, ammonium sulphate 48 mg/l (96hr, Catla catla), 81 - 130 mg/l (96hr, Crangon crangon (Crustacea)).

Bioaccumulation No data
Degradability No data

Soil No consided ecotoxic in the soil environment.

Terrestrial vertebrate The mixture has been classified by EPA as harmful to terrestrial vertebrates. Using LD₅₀'s

for ingredients, the calculated LD50 (oral, rat) for the mixture is between 500 and 2,000 mg/kg. Data considered includes: Ammonium sulphate 640 mg/kg (mouse), 2840mg/kg

(rat).

Terrestrial invertebrate Not toxic towards terrestrial invertebrates

Biocidal Not biocidal

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

13. 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 methodDisposal of this product must comply with 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 Rinse containers with water before disposal. Preferably re-cycle container, otherwise

send to landfill or similar.

14. Transport Information

There are no specific restrictions for this product (not a dangerous good).

UN number:NAProper shipping name:NAClass(es)NAPacking group:NAPrecautions:Not applicable.Hazchem code:NA

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002573, Fire Fighting Chemicals Group Standard 2006.

Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are:

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

Labelling No removal of labels and/or decanting of product into other containers can occur.

Emergency plan Required if > 1000kg is stored.

Approved handler Not required. Tracking Not required.

Bunding & secondary containment Required if > 1000kg is stored.

Signage Required if > 10000kg is stored.

Location test 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.

Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health, Safety in Employment Act and Regulations, local Council Rules and Regional Council Plans.

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Product Name: Prestolit ABC 50

Other Information

Abbreviations

HSR002573, Fire Fighting Chemicals Group Standard 2006, Controls, EPA. **Approval Code**

www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical Ceiling

agent to which a worker may be exposed at any time.

Controls Matrix List of default controls linking regulation numbers to Matrix code (e.g. T1, I16).

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

population (e.g. daphnia, fish species)

ERMA Environmental Risk Management Authority (now EPA)

Environmental Protection Agency (previously known as ERMA) **EPA**

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

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

LC₅₀ Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population

(usually rats)

MSDS (SDS) Material Safety Data Sheet (or Safety Data Sheet)

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

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

(usually 8 hours)

UFI Upper Explosive Limit **UN Number** United Nations Number

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

agent to which a worker may be exposed.

References

Unless otherwise stated comes from the EPA HSNO chemical classification information Data

database (CCID) http://www.epa.govt.nz/hs/compliance/chemicals.html , for specific

chemicals.

EPA Transfer Gazettes

Controls Matrix

Classifications and controls assigned for specific ingredients (consolidated gazette, 2004)

Part of the EPA New Zealand User Guide to the HSNO Control Regulations The NZ Workplace Exposure Standards Effective from 2013, published by WorkSafe NZ

WES 2013

and available on their web site - www.worksafe.govt.nz.

Other References: Suppliers SDS

Review

Date Reason for review August 2014 Not 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 HSNO 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 9 940 30 80.

