

SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name DIPHOTERINE MINI AND MICRO AUTONOMOUS PORTABLE SHOWER (NZ)
Synonyms 235054502 - PRODUCT CODE • DIPHOTERINE® MINI AND MICRO AUTONOMOUS PORTABLE SHOWER • MINI DAP SPRAY • PREVOR DIPHOTERINE® MINI AND MICRO AUTONOMOUS PORTABLE SHOWER • SPRAY DIPHOTERINE® MINI DAP

1.2 Uses and uses advised against

Uses WASHING OF OCULAR OR CUTANEOUS CHEMICAL SPLASHES
Uses advised against DIPHOTERINE® solution is not recommended for the washing of splashes of hydrofluoric acid or fluorides in acidic medium.

1.3 Details of the supplier of the product

Supplier name FORTUS SAFETY NZ
Address 50 Harris Road, East Tamaki, Auckland, 2013, NEW ZEALAND
Telephone 0800 262 736
Website <http://Fortussafety.nz>

1.4 Emergency telephone numbers

Emergency 027 220 9412

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

HAZARDOUS ACCORDING TO NZ ENVIRONMENTAL PROTECTION AUTHORITY CRITERIA

Physical Hazards

Aerosols - Pressurised: Category 3

Health Hazards

Not classified as a Health Hazard

Environmental Hazards

Not classified as an Environmental Hazard

2.2 GHS Label elements

Signal word WARNING

Pictograms

Hazard statements

H229 Pressurized container: may burst if heated.

Prevention statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 Do not pierce or burn, even after use.

Response statements

None allocated.

Storage statements

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C.

Disposal statements

None allocated.

2.3 Other hazards

No information provided.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
AMPHOTERIC SALT(S)	-	-	Not Available
WATER	7732-18-5	231-791-2	Remainder

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye	No specific hazards. For an ocular comfort, wash with the AFTERWASH II ® solution or the WASHING SOLUTION after a primary washing with DIPHOTERINE ® solution.
Inhalation	This is not the major route of exposure. The product is non-toxic by inhalation. In case of adverse effects, contact the National Poisons Centre on 0800 764 766 (0800 POISON) or +643 479 7248 or a doctor.
Skin	No specific hazards. For comfort, the skin can be rinsed with tap water.
Ingestion	This is not the major route of exposure. The product is non-toxic by oral exposure. In case of adverse effects, contact the National Poisons Centre on 0800 764 766 (0800 POISON) or +643 479 7248 or a doctor.
First aid facilities	Normal washroom facilities should be available.

4.2 Most important symptoms and effects, both acute and delayed

No known unwanted effects.

4.3 Immediate medical attention and special treatment needed

No specific care. This mixture is a sterile medical device for temporary use. This mixture is not hazardous in itself. If necessary, apply a secondary treatment to the chemical involved. This product is a Medical Device Class 2A according to the Therapeutic Goods Administration (TGA).

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Water spray, carbon dioxide, dry agent or foam. Prevent contamination of drains and waterways.

5.2 Special hazards arising from the substance or mixture

Non flammable. Possible thermal decomposition above 100°C in toxic products: carbon/nitrogen oxides and organic vapours. Aerosol may explode at temperatures exceeding 50°C.

5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

5.4 Hazchem code

2YE	
2	Fine Water Spray.
Y	Risk of violent reaction or explosion. Wear full fire kit and breathing apparatus. Contain spill and run-off.
E	Evacuation of people in and around the immediate vicinity of the incident should be considered.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

In case of ocular contact and for an ocular comfort, wash with the AFTERWASH II ® solution or the WASHING SOLUTION.

6.2 Environmental precautions

Even if the mixture is not ecotoxic, limit discharges into the environment (sewers, rivers, soils).

6.3 Methods of cleaning up

No specific precautions. This product can be absorbed, for example, with an absorbent from PREVOR product range like POLYCAPTOR® polyvalent absorbent or TRIVOREX® polyvalent neutralizing absorbent.

6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No specific precautions. Before use carefully read the product label. Use of safe work practices are recommended. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

7.2 Conditions for safe storage, including any incompatibilities

.Keep well closed in the original packaging. This product has a two years shelf-life if kept sealed in its original packaging. The portable eye wash can be kept six months after its preparation (cap opening), respecting the two years shelf-life.

When possible, store containers in a cool, dry location, and protect from frost or any source of intense heat (storage temperature between 2°C and 50°C). The ideal temperature of use is ambient temperature (between 15°C and 35°C).

The product is stable in normal storage, handling and use. Do not store in corrosive environment without protective case (wall-mounted stations or boxes).

7.3 Specific end uses

Washing of ocular or cutaneous chemical update.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters**Exposure standards**

No exposure standards have been entered for this product.

Biological limits

No biological limit values have been entered for this product.

8.2 Exposure controls

Engineering controls No thermal risk with this product.

The residue of chemical which contaminate the person and DIPHOTERINE® solution can retain the dangerous chemical's characteristics. So recover washing residue with, for example, an absorbent from PREVOR product range like POLYCAPTOR® polyvalent absorbent, TRIVOREX® polyvalent neutralizing absorbent, ACICAPTAL® neutralizing absorbent specific to acids or BASICAPTAL® neutralizing absorbent specific to bases.

PPE

Eye / Face	Not required under normal conditions of use.
Hands	Not required under normal conditions of use.
Body	Not required under normal conditions of use.
Respiratory	Not required under normal conditions of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	CLEAR COLOURLESS LIQUID (AEROSOL DISPENSED)
Odour	ODOURLESS
Flammability	NON FLAMMABLE
Flash point	NOT RELEVANT
Boiling point	100°C
Melting point	-1°C
Evaporation rate	1 (Water = 1)
pH	7.2 to 7.7
Vapour density	NOT AVAILABLE
Relative density	1.032
Solubility (water)	SOLUBLE
Vapour pressure	18 mm Hg @ 20°C

9.1 Information on basic physical and chemical properties

Upper explosion limit	NOT RELEVANT
Lower explosion limit	NOT RELEVANT
Partition coefficient	NOT AVAILABLE
Autoignition temperature	NOT RELEVANT
Decomposition temperature	> 100°C
Viscosity	AS WATER
Explosive properties	NOT EXPLOSIVE
Oxidising properties	NON OXIDISING
Odour threshold	NOT RELEVANT

9.2 Other information

Freezing point	-1°C
Density	1.032 g/cm ³

10. STABILITY AND REACTIVITY

10.1 Reactivity

This mixture is non-reactive.

10.2 Chemical stability

Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions

None known to date (no hazardous polymerization, no decomposition, no condensation and no self-reactivity expected).

10.4 Conditions to avoid

Do not store at a temperature lower than 2°C or at a temperature higher than 50°C.

For MICRO DAP and MINI DAP sprays, do not drill or expose to sunlight (avoid temperature higher than 50°C). For DAP (autonomous portable shower) avoid temperature higher than 60°C.

10.5 Incompatible materials

None known to date.

10.6 Hazardous decomposition products

Possible thermal decomposition above 100°C in toxic products: carbon/nitrogen oxides and organic vapours.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Non-toxic by oral exposure. LD50 (Oral) = > 2000 mg/kg. This product may have the potential to cause adverse health effects if intentionally misused (e.g. deliberately inhaling contents).
Skin	Non-irritant and non-corrosive (in-vitro test Dermal Irritation® method).
Eye	Non-irritant and non-corrosive (in-vitro tests on human fibroblasts).
Sensitisation	Non-sensitising (Magnusson & Kligman method on guinea pig). Hypoallergenic (Marzulli-Maibach method on volunteers). Non-anti-inflammatory (MTT in-vitro test and IL-1 α pro-irritation potential).
Mutagenicity	Non-mutagenic (Ames test negative).
Carcinogenicity	Not determined.
Reproductive	Not determined.
STOT - single exposure	Not determined. This product may have the potential to cause adverse health effects if intentionally misused (e.g. deliberately inhaling contents).
STOT - repeated exposure	Not determined.
Aspiration	Not determined.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No known adverse effects. EC50 (Photobacterium phosphoreum) = 5136 mg/L/15m and 5832 mg/L/30m. EC50 (Daphnia magna) = 5664 mg/L/24h.

PRODUCT NAME DIPHOTERINE MINI AND MICRO AUTONOMOUS PORTABLE SHOWER (NZ)

12.2 Persistence and degradability

Non persistent. DIPHOTERINE® solution is stable, but will decompose to simple salts in the environment.

12.3 Bioaccumulative potential

DIPHOTERINE® solution is not bioaccumulable (soluble in water and slightly soluble in organic solvents).

12.4 Mobility in soil

Not determined.

12.5 Other adverse effects

No information provided.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal Dispose of to landfill. Do not puncture or incinerate aerosol cans. Contact the manufacturer/supplier for additional information (if required).

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO LAND TRANSPORT RULE: DANGEROUS GOODS 2005, IMDG AND IATA



	LAND TRANSPORT (NZS 5433)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	1950	1950	1950
14.2 Proper Shipping Name	AEROSOLS	AEROSOLS	AEROSOLS
14.3 Transport hazard class	2.2	2.2	2.2
14.4 Packing Group	None allocated.	None allocated.	None allocated.

14.5 Environmental hazards

Not a Marine Pollutant.

14.6 Special precautions for user

Hazchem code 2YE

EmS F-D, S-U

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Approval code Not required

Group standard Not required

Inventory listings **NEW ZEALAND: NZIoC (New Zealand Inventory of Chemicals)**
All components are listed on the NZIoC inventory, or are exempt.

16. OTHER INFORMATION

Additional information

PRODUCT NAME DIPHOTERINE MINI AND MICRO AUTONOMOUS PORTABLE SHOWER (NZ)

Recommended use: Use DIPHOTERINE® solution immediately and as primary action to wash eye or skin in cases of chemical splashes (acids, bases, oxidizers, reducing agents, chelators or solvents). The user protocol for DIPHOTERINE® solution is available and downloadable on our website www.prevor.com

Caution:

1. In case of persistent discomfort or foreign bodies after washing, it is recommended to consult a specialist.
2. In case of splash of hydrofluoric acid or fluoride compound in acidic medium, it is recommended to use HEXAFLUORINE® solution as primary action and to consult a doctor.
3. In any case, ensure that washing has been done correctly and apply the current protocol advised by the medical officer.

AEROSOL CANS may explode at temperatures approaching 50°C.

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES: Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: Strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds
CCID	Chemical Classification and Information Database (HSNO)
CNS	Central Nervous System
EC No.	EC No - European Community Number
EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
EPA	Environmental Protection Authority [New Zealand]
GHS	Globally Harmonized System
HSNO	Hazardous Substances and New Organisms
IARC	International Agency for Research on Cancer
LC50	Lethal Concentration, 50% / Median Lethal Concentration
LD50	Lethal Dose, 50% / Median Lethal Dose
mg/m ³	Milligrams per Cubic Metre
OEL	Occupational Exposure Limit
pH	relates to hydrogen ion concentration using a scale of 0 (highly acidic) to 14 (highly alkaline).
ppm	Parts Per Million
STEL	Short-Term Exposure Limit
STOT-RE	Specific target organ toxicity (repeated exposure)
STOT-SE	Specific target organ toxicity (single exposure)
TLV	Threshold Limit Value
TWA	Time Weighted Average

PRODUCT NAME DIPHOTERINE MINI AND MICRO AUTONOMOUS PORTABLE SHOWER (NZ)

Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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