



Bio Natural Solutions Pty Ltd
Biocidal Cleaner
Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name Biocidal Cleaner
Product Use Disinfectant, multipurpose cleaner.
Company Name Bio Natural Solutions Pty Ltd
38 132 198 853
Address Factory 15
49-55 Garden Drive
Tullamarine Victoria 3043
Telephone 1300 730 551
Fax 1300 491 167
Emergency Telephone 0418 338877
Email support@bnsolutions.com.au

2. HAZARDS IDENTIFICATION

Hazardous according to criteria of NOHSC/ASCC
Hazardous according to the criteria of Worksafe Australia

Hazard Category: Irritant

Hazard Classification: HAZARDOUS SUBSTANCE, NOT DANGEROUS GOOD

RISK PHRASES

R22 Harmful if swallowed
R36/38 Irritating to eyes and skin.

SAFETY PHRASES

S2 Keep out of reach of children.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.
S28 After contact with skin, wash immediately with plenty of soap & water
S62 If swallowed, do not induce vomiting; Seek medical advice immediately and show this container or label.

Poison Schedule: None allocated [Aust].

Warning Statement:

None indicated

3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
WATER	30 to 60%	7732-18-5
QUATERNARY AMMONIUM COMPOUNDS	10 to 30%	85566-47-8
DIPROPYLENE GLYCOL METHYL ETHER	1 to 10%	34590-94-8
ORANGE CRUSH FRAGRANCE	1 to 10%	72968-50-4

All other ingredients not hazardous according to EU Criteria.

4. FIRST AID MEASURES

Swallowed If swallowed, DO NOT induce vomiting. Give 3 to 4 glasses of water to drink. If irritation persists transport to hospital or doctor.
Eye If material enters the eyes, flush with plenty of water for at least 15 minutes, ensuring eye lids are held open. If irritation persists, transport to hospital or doctor.
Skin If material is falls onto the skin, remove any contaminated clothing and wash skin thoroughly with soap and water. If irritation persists transport to hospital or doctor.
Inhaled Move victim to fresh air.
First Aid Facilities Eye wash fountain, safety shower and normal wash room facilities.
Advice to Doctor Treat symptomatically.

In case of poisoning, contact Poisons Information Centre:

In Australia call Tel: 131 126
In New Zealand Tel: 03 474 70 00

5. FIRE FIGHTING MEASURES

Fire/Explosion Hazard If safe to do so, move undamaged containers from fire area.
Fire Fighting Procedures Fire fighters to wear Self-contained breathing apparatus (SCBA) in confined spaces, in oxygen deficient atmospheres or if exposed to products of decomposition. Full protective clothing is also recommended.
Extinguishing Media Use extinguishing media suitable for surrounding fire situation.
Hazchem Code None allocated [Aust]
Flammability Material is non flammable or combustible liquid.

6. ACCIDENTAL RELEASE MEASURES

Material may be slippery when spilt. Walk cautiously. Ventilate area. Wear protective equipment to prevent skin and eye contact, as outlined under personal protection in this MSDS. Bund area using sand or soil - to prevent run off into drains and waterways. Use absorbent (soil, sand, vermiculite or other inert material). Collect and seal in properly labeled containers for disposal.

7. HANDLING AND STORAGE

Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition. Store away from oxidizing agents. Keep containers closed, when not using the product. Store in original packages as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

No exposure standards are available for this product, however the following exposure standards have been assigned by NOHSC to the following components of the product:

WATER

No exposure standards have been assigned by the National Occupational Health & Safety Commission (NOHSC)

QUATERNARY AMMONIUM COMPOUNDS

No exposure standards have been assigned by the National Occupational Health & Safety Commission (NOHSC)

DIPROPYLENE GLYCOL METHYL ETHER

(Worksafe Australia)

[TWA]100 ppm 606 mg/m³

[STEL]150 ppm 909 mg/m³

Notices: Sk

References: H

(ACGIH)

[TWA]100 ppm 606 mg/m³

[STEL]150 ppm 909 mg/m³

Notices: Sk

ORANGE CRUSH FRAGRANCE

No Exposure details available

Engineering Controls

Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate unless the material is heated, reacted or otherwise changed in some type of chemical reaction, then the use of a local exhaust ventilation system is recommended.

Personal Protection Equipment

Gloves	PVC or natural rubber. Impervious gloves
Eyes	Chemical goggles or face shield to protect eyes
Respiratory Protection	Avoid breathing of vapours/gases. Select and use respirators in accordance with AS/NZS 1715/1716. The use of a P1 dust mask (disposable) or with replaceable filters is recommended. Filter capacity and respirator type depends on exposure levels and type of contaminant. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.
Ventilation	Not applicable
Exposure Limits	Not applicable as not harmful

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Coloured liquid with faint alcoholic odour
Boiling Point:	100 deg C
Melting Point:	Not available
Vapour Pressure:	5.33 mm Hg (1 atmosphere)
Specific Gravity:	1.00 (water=1)
Flash Point:	Not applicable
Flammability Limits:	Not applicable
Solubility in Water:	Completely miscible g/l (25 deg C)

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of use.
Hazardous Decomposition Products	Emits smoke and fumes when heated to decomposition
Hazardous Polymerization	Will not occur.
Incompatibilities	Strong acids, alkalis and oxidizing agents.
Conditions to Avoid	Heat, flames, ignition sources and incompatibles

11. TOXICOLOGICAL INFORMATION

No adverse health effects are expected, if the product is handled in accordance with this MSDS and the product label. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are:

ACUTE HEALTH EFFECTS

Swallowed	May cause burns to the mouth, mucous membranes, throat, oesophagus and stomach. If sufficient quantities are ingested (swallowed) death may occur.
Eye	May cause burns to the eyes with effects including: Pain, tearing, conjunctivitis and if duration of exposure is long enough, blindness will occur.
Skin	May cause burns to the skin, with effects including; Redness, blistering, localised pain and dermatitis.
Inhaled	Mists or vapours will cause severe irritation to the nose, throat and respiratory system with effects including: Dizziness, headache, coughing, loss of co-ordination, tightening of the chest, chest pains and possible pulmonary oedema.
Chronic	Prolonged or repeated skin contact may lead to dermatitis. Prolonged or repeated skin contact will lead to necrosis (death) of the skin.

Prolonged or repeated contact with this substance will cause sensitisation by skin contact.

Additional information for Chronic

No significant long term exposure effects, including carcinogenic, mutagenic, teratogenic and reproductive effects, have been reported. However, repeated ingestion of some phosphates (120-240mg/kg/day) has been shown to cause increased calcium excretion and soft tissue calcification in man.

There have been numerous studies conducted with dipropylene glycol monomethyl ether and there is no evidence to suggest carcinogenicity, mutagenicity and/or toxic effects to reproduction (fertility or development). There is also no indication that dipropylene glycol monomethyl ether will cause eye, skin irritation or sensitisation.

Toxicological Data

There is no other toxicological information available for this product.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No data available.
Mobility	No data available.
Persistence/Degradability	No data available.
Chemical Fate Information	No data available.

This substance may cause long term adverse effects in the aquatic environment.

This substance may cause long term adverse effects in the environment

13. DISPOSAL CONSIDERATION

Contact the Land Waste Management Authority in your state

14. TRANSPORT INFORMATION

Road Transport

UN Number	None allocated
Proper Shipping Name	NONE ALLOCATED
Dangerous Goods Class	None allocated
Packing Group	None allocated
Label	None allocated

Air Transport

UN Number	None allocated
Proper Shipping Name	NONE ALLOCATED
Dangerous Goods Class	None allocated
Packing Group	None allocated
Label	None allocated

Sea Transport

UN Number	None allocated
Proper Shipping Name	NONE ALLOCATED
Dangerous Goods Class	None allocated
Packing Group	None allocated
Label	None allocated

HAZCHEM CODE None allocated

Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) 6th Edition. Not classified as a Dangerous Good according to the UN, DOT(US), ICAO(IATA) or IMO(IMDG).

15. REGULATORY INFORMATION

Poison Schedule: None allocated [Aust]

EPG: None allocated

Inventory Status:

<i>Inventory Status</i>	
Australia (AICS)	Y
United States (TSCA)	Y
Canada (DSL)	Y
Europe (EINECS/ELINCS)	Y
Japan (MITI)	Y
South Korea (KECL)	Y

Y = all ingredients are on the inventory.

16. OTHER INFORMATION

This MSDS summarises our best knowledge of the health and safety hazard information available on the product and the measures to be used to handle and use the product safely. Each user should read this MSDS and consider the information in connection with the way the product is intended to be handled or used.

Date of Preparation: Feb 2024

Issue Date: Feb 2024

END MSDS