Safety Data Sheet – BIFORM DECK CLEANER

1. Identification

Product Name: Biform Deck Cleaner

UN Number: 3378

Recommended Use: Cleaning product for Biform decks

Proper Shipping Name: SODIUM CARBONATE PEROXYHYDRATE

Supplier:

Name: Biform Ltd.
Address: 2/116a Harris Road
East Tamaki

Auckland, 2013
Phone: 0880 449 274
Email: info@biform.co.nz
Website: www.biform.co.nz

PO Box 13842
Onehunga
Auckland, 1643

Emergency Contacts:

In New Zealand: Emergency Services (Fire, Ambulance, Police) – Dial 111
National Poisons Information Centre – 0800 764 766 (0800 POISON)
Company Contact – 0800 764 766

In Australia: Emergency Services Fire, Ambulance, Police – Dial 000
Poisons Centre: 131 126

2. Hazard Identification

Statement of Hazardous Nature:
This preparation is classified as a health or environmental hazard according to the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017.

Classified as a Dangerous Good according to NZS 5433.

Classified as hazardous according to the Hazardous Chemical Information System (HCIS), classified in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) 3rd Revised Edition.

Classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail - 2017.

Hazard Classification:
5.1.1B, 6.1D, 6.3A, 6.4A, 9.1D, 9.3C

Hazard Statements:
DANGER
May intensify fire; oxidiser.
Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.
Harmful to aquatic life.
Harmful to terrestrial vertebrates.

Prevention Statements:
Keep out of reach of children.
Read label and safety data sheet before use.
Keep away from heat. No smoking.
Store away from clothing, incompatibles and combustible materials.
Take any precaution to avoid mixing with combustibles.
Wash hands and exposed skin thoroughly after handling.
Do not eat, drink or smoke while using this product.
Avoid release to the environment.
Wear protective gloves and eye/face protection.

3. Composition & Information on Ingredients

Ingredient	CAS Number	Concentration (%)
Sodium Percarbonate	15630-89-4	> 85%
Sodium Carbonate	497-19-8	10 – 15%

4. First Aid Measures

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

New Zealand Poisons & Hazardous Chemicals National Information Centre

phone 0800 POISON – 0800 764 766

Inhalation: IF INHALED, remove victim from area and keep at rest in a position comfortable for breathing. If breathing difficulties occur, seek medical advice.

Skin: IF ON SKIN (or hair), wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs, seek medical advice / attention.

Eyes: IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses, of present and easy to do. Continue rinsing. If eye irritation persists, seek medical attention.

Ingestion: IF SWALLOWED, rinse mouth. Do NOT induce vomiting. Call a POISON CENTRE or doctor / physician if you feel unwell.

Advice to Doctor: Treat symptomatically.

5. Fire Fighting Measures

Flammability: Non-flammable product; however, is an oxidising substance that will accelerate burning when involved in a fire.

Extinguishing media: Use appropriate for surrounding materials. Prevent contamination of drains or water ways.

Unsuitable extinguishing media: Water jet; use of water spray when fighting fire may be inefficient.

Specific hazards arising from chemical: Oxidising substance. Non-combustible, but will support combustion of other materials.

Hazardous Combustion products: Carbon and nitrogen oxides may be formed.

Fire-fighting instructions: Wear approved self-contained breathing apparatus and full protective gear. Exercise caution when fighting any chemical fire. Cool compromised containers with water.

6. Accidental Release Measures

General measures: Ensure adequate ventilation. Avoid dust formation. Avoid unintentional contact of the product with water. Do not touch or walk through spilled material. Keep unauthorised personnel away. Avoid contact with skin and eyes. Wear appropriate personal protective equipment (see Section 8).

Dry spills: Use clean, non-sparking tools to transfer material to a clean, dry plastic container and cover loosely. Dispose of in accordance with Section 13.

Liquid spills: Use vermiculite, sand, earth or other non-combustible material to soak up the product. Collect and place waste in a loosely covered container for later disposal.

Environmental precautions: Prevent spill from entering storm water and sewer drains and watercourses.

7. Handling & Storage

Safe Handling

Keep out of reach of children.
Before use carefully read the product label.
Use of safe work practices are recommended to avoid eye or skin contact.
Observe good personal hygiene, including washing hands before eating.
Do not eat, drink or smoke while using this product.

Certified Handler: Not Required

Storage

Keep away from sources of heat and reactive products. Store in cool, dry area, removed from foodstuffs.
Protect from direct sunlight. Store at temperatures less than 40°C. Store in the original/supplied container only.
Ensure containers are labelled, protected from physical damage and sealed when not in use.
Do not store nearby clothing, combustibles or incompatible materials (Section 10).

8. Exposure Controls & Personal Protection

Exposure Standards

Workplace Exposure Standards (WES):

No exposure standards have been set for this product.

Ingredient	CAS Number	TWA
Particulates not otherwise classified	-	10 mg/m^3 3 mg/m^3 (respirable dust)

Data source: *Workplace Exposure Standards and Biological Exposure Indices (11th Edition, Nov 2019, WorkSafe)*

Biological Exposure Indices (BEI): None allocated.

Engineering Controls

Ventilation: Ensure adequate ventilation – optimise natural airflows. Avoid excessive dust generation.

Engineering measures to be available at the workplace: Safety showers, eyewash stations.

Personal Protection (PPE)

Wear protective gloves and eye/face protection.

Eyes/Face: Splash resistant safety glasses with side shields or safety goggles (AS/NZS 1337)

Skin: Wear protective gloves made of suitable material, such as PVC, neoprene and natural rubber. The glove material must be impermeable and resistance to the product. Consult your glove supplier for further advice regarding glove selection. Use full body protective clothing when prolonged or repeated contact with the product may occur.

Respiratory: Not required under normal conditions of use. If airborne exposure is above guidelines, an approved respirator with P2 cartridges should be worn. Respiratory protection may be advisable when cleaning spills. Respirators should comply with AS/NZS 1716 and maintained in accordance with AS/NZS 1715.

9. Physical & Chemical Properties

Appearance:	Granular solid.	**Vapour pressure:**	Not applicable.
Odour:	Odourless	**Vapour density:**	Not applicable.
Odour threshold:	No data available.	**Density at 20 ºC**:	0.8 – 1.2 g/cm^3
pH:	10 – 11 (3% water solution)	**Solubility (water)**:	Miscible.
Boiling point:	Not applicable (the substance decomposes when heated)	**Partition coefficient (n-octanol/water):**	No data available.
Melting point:	Not applicable.	**Autoignition Temp:**	No data available.
Flash point:	Not applicable.	**Decomposition Temp:**	50°C
Flammability:	This product is not flammable.	**Vapour density**:	Not applicable.
Flammability limits in air (% by volume)		**Kinematic viscosity**:	Not applicable.
Upper (UEL):	Not applicable.	**Oxidising properties**:	Oxidising substance; may intensify fire.
Lower (LEL):	Not applicable.		

10. Stability & Reactivity

Stability: Stable under normal conditions of use and storage. Potential for thermal decomposition, do not overheat.

Conditions to avoid: Sources of heat, moisture.

Incompatible Materials: Water, acids, bases, heavy metal salts, reducing agents, organic materials, flammable substances.

Hazardous decomposition products: Decomposition releases steam/heat; oxygen.

11. Toxicological Information

Health Effects / Symptoms of Exposure

Acute Exposure:

Skin: Causes skin irritation. Prolonged or repeated skin contact may cause cracking, irritation and possible dermatitis.

Eyes: Causes serious eye irritation. May cause redness, pain and/or blurred vision.

Ingestion: Harmful if swallowed. May cause irritation of the gastrointestinal tract, nausea and abdominal pain.

Inhalation: Slight nose and throat irritation. At high concentrations, cough may develop. Repeated or prolonged exposure may cause sore throat, nose bleeds and chronic bronchitis.

Chronic Exposure:

Respiratory or Skin sensitisation: Not classified as a sensitiser.

Mutagenicity: Not classified as a mutagen.

Carcinogenicity: Not classified as a carcinogen.

Reproductive Toxicity: Not classified as a reproductive toxin.

Specific Target Organ Toxicity: Not classified as a systemic toxin.

Aspiration Hazard: No data available.

Toxicological Data

No data available for this product as a whole. Toxicological data below is for individual ingredients.

Sodium percarbonate	LD50 (Oral, Rat) =	1,034 mg/kg

Sodium carbonate	LD50 (Oral, Rat) =	4,090 mg/kg
	LC50 (Inhalation, Rat) =	1.15 mg/L

*Data source: *Chemical Classification and Information Database (CCID)*

12. Ecological Information

Harmful to aquatic life. Harmful to terrestrial vertebrates. Avoid release to the environment.

Persistence in environment: In presence of water, sodium percarbonate will dissociate into hydrogen peroxide and sodium carbonate. Undergoes physical degradation (reaction) in the environment.

Degradation products: Sodium carbonate, carbon dioxide, bicarbonate, carbonate, hydrogen peroxide.

Biodegradability: No data available.

Bioaccumulation: Does not bioaccumulate.

Mobility: Considerable solubility and mobility in water.

Ecotoxicological Data

No data available for this product as a whole. Data below is for individual ingredients.

Sodium percarbonate	LC50 (*Pimephales promelas,* 96-hr) =	70.7 mg/L
	EC50 (*Daphnia pulex,* 48-hr) =	4.9 mg/L
	LD50 (Rat) =	1,034 mg/kg

*Data source: *Chemical Classification and Information Database (CCID)*

13. Disposal Considerations

Product is hazardous. Do not allow into drains, sewers or watercourses. Bulk or contaminated product must be disposed of through an approved hazardous waste contractor. Disposal waste contractors must comply with the New Zealand Hazardous Substances (Disposal) Notice 2017. Containers may only be recycled or placed in general waste if clean and free of residue so as to be non-hazardous.

14. Transport Information

Classified as a Dangerous Good according to NZS 5433:2007
Classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail - 2017.

Proper Shipping Name: SODIUM CARBONATE PEROXYHYDRATE

UN Number: 3378

DG Class: 5.1

Subsidiary Risk: N/A

Packing Group: II

EPG: 31 – Oxidising Substances

15. Regulatory Information

HSNO Approval

All ingredients listed in the NZIoC.

HSNO Group Standard: Cleaning Products (Oxidising [5.1.1]) Group Standard – HSR002590

All ingredients listed in the ACIS any condition of use associated with the listing on the AICS and/or whether any chemical or a chemical in the product is being introduced under a permit. In addition, it is recommended that information in a NICNAS assessment report be included.

Poisons Schedule (Australia): Schedule 6

16. Other Information

Abbreviations / Terminology:

AICS	Australian Inventory of Industrial Chemicals (Inventory)
AS/NZS	Joint Australian New Zealand Standard
AS/NZS 1337	Personal eye-protection
AS/NZS 1715	Selection, use and maintenance of respiratory protective equipment
AS/NZS 1716	Respiratory protective devices
BEI	Biological Exposure Indices
CAS#	Chemical Abstract Service number (a unique identifier for chemicals)
EC50	Median effect concentration, being a statistically derived concentration of a substance that can be expected to cause an adverse reaction or reduction in growth/growth rate in 50 percent of organisms.
HSNO	(New Zealand) Hazardous Substances and New Organisms Act

LC50	Median lethal concentration, being a statistically derived concentration of a substance that can be expected to cause death in 50 percent of organisms.
LD50	Median lethal dose, being a statistically derived single dose of a substance that can be expected to cause death in 50 percent of animals.
NICNAS	National Industrial Chemicals Notification and Assessment Scheme (Australia)
NZIoC	New Zealand Inventory of Chemicals
NZS 5433	Transport of Dangerous Goods on Land
TWA	Time Weighted Average
WES	Workplace Exposure Standard

Prepared with reference to: *Hazardous Substances (Safety Data Sheets) Notice 2017* published by Environmental Protection Authority, New Zealand.

Current Version: 26 August 2020

Revision Information:

SDS may be revised from time to time, please ensure you have a current copy.

This revision: Generation of SDS based from overseas document, to reflect supplier details and to meet NZ requirements.

Previous revision dated: 25 February 2016

Disclaimer:

This safety data sheet attempts to describe as accurately as possible the potential exposures associated with normal use of the product described herein. Health and safety precautions in the data sheet may not be adequate for all individuals and/or situations. Users have the responsibility to evaluate and use this product safely and to comply with all applicable laws and regulations.

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