

Revision date: 06-Aug-2024

# SAFETY DATA SHEET

**Revision Number** 2

Section 1: Identification		
Product identifier		
Product Name	ENZYBREW 10	
Product Code(s)	00000054097	
Other means of identification		
Recommended use of the chemical	and restrictions on use	
Recommended use	Detergent.	
Uses advised against	No information available	
Details of the supplier of the safety	data sheet	
Supplier IXOM Operations Pty Ltd (Incorporate NZBN: 9429041465226 Street Address: 166 Totara Street Mt Maunganui South New Zealand	d in Australia)	
Telephone Number: +64 9 368 2700 Facsimile: +64 9 368 2710		
Emergency telephone number		
Emergency Telephone	0 800 734 607 (ALL HOURS)	
Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.		
Section 2: Hazard identification		
Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.		
Classified as bazardous according to	Classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020	

Classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020. GHS Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3



# Signal word

Danger

#### Hazard statements H302 - Harmful if swallowed H315 - Causes skin irritation H318 - Causes serious eye damage

H335 - May cause respiratory irritation

#### **Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Wash eyes thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/clothing and eye/face protection.

#### Precautionary Statements - Response

Specific treatment (see First aid on this SDS).

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

#### Skin

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 reuse.

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

#### Ingestion

#### Rinse mouth.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

#### Precautionary Statements - Disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

#### Other hazards which do not result in classification

No information available.

#### Section 3: Composition/information on ingredients

Chemical name	CAS No.	Weight-%
Sodium carbonate	497-19-8	>30
Sodium percarbonate	15630-89-4	>30
Disodium metasilicate	6834-92-0	1-<5

# Section 4: First-aid measures

#### Description of first aid measures

#### **General advice**

For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New

	Zealand 0800 764 766) or a doctor.	
Inhalation	Remove to fresh air. If breathing is difficult, (trained personnel should) give oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Call a physician immediately.	
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.	
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.	
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).	
Most important symptoms and effects, both acute and delayed		
Symptoms	May cause redness and tearing of the eyes. Erythema (skin redness). Coughing and/ or wheezing. Difficulty in breathing. Irritation/Corrosion.	
Effects of Exposure	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically. Can cause corneal burns.	

	occubility including including	
Suitable Extinguishing Media		
Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam.	
Suitable Extinguishing Media	Bry chemical, CO2, water spray of regular roam.	

Unsuitable extinguishing media None known.

Specific hazards arising from the chemical

Section 5: Fire-fighting measures

**Specific hazards arising from the chemical** Promotes the combustion (oxidizer). Can cause fire and explosion when in contact with flammable substances. Any material contaminated with the product (e.g. clothes) ignites easily and burns vigorously - increased fire hazard.

#### Special protective actions for fire-fighters

**Special protective equipment and** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. **precautions for fire-fighters** 

# Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation. Do not touch or walk through spilled material. Use personal protective equipment as required. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
Other information	Refer to protective measures listed in Sections 7 and 8.

For emergency responders	Use personal protection recommended in Section 8.	
Environmental precautions		
Environmental precautions	Prevent further leakage or spillage if safe to do so.	
Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Use appropriate personal protective equipment (PPE). Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. After cleaning, flush away traces with water. Never return spill or leaks to original containers for re-use.	
Precautions to prevent secondary hazards		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	

#### Section 7: Handling and storage

#### Precautions for safe handling

Advice on safe handling	Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Use personal protection equipment. Wash thoroughly after handling.	
General hygiene considerations	Wash hands and face before breaks and immediately after handling the product.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Keep/store only in original container. Keep at temperatures between 4 and 25 °C. Keep container closed when not in use. Store away from foodstuffs.	
Incompatible materials	None known based on information supplied.	

#### Section 8: Exposure controls/personal protection

Control parameters

 Exposure Limits
 No value assigned for this specific material by the New Zealand Workplace Health & Safety

 Authority. However, Workplace Exposure Standard(s) for particulates:.

Particulates not otherwise classified: 8hr WES-TWA 10 mg/m<sup>3</sup> (inhalable dust) or 3 mg/m<sup>3</sup> (respirable dust)

As published by the New Zealand Workplace Health & Safety Authority.

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

#### Appropriate engineering controls

**Engineering controls** 

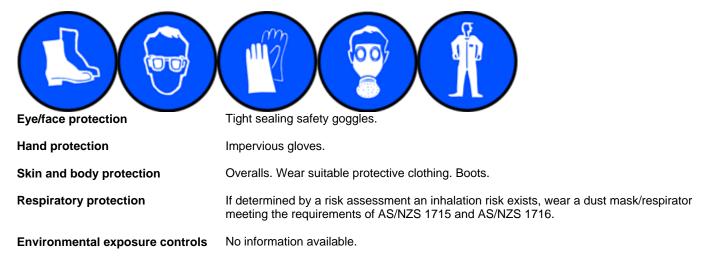
Eyewash stations.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

#### Individual protection measures, such as personal protective equipment

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, DUST MASK.



#### Section 9: Physical and chemical properties

Information on basic physical and chemical properties		
Physical state	Solid	
Appearance	Powder	
Color	White	
Odor	Characteristic	
Odor threshold	No information available	
Property_	Values	Remarks • Method
рН	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	

Water solubility
Solubility(ies)
Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity

Other information Particle characteristics No data available Partially soluble in water. No data available No data available

No data available No data available None known None known None known None known None known

# Section 10: Stability and reactivity

Reactivity	
Reactivity	Hygroscopic.
Chemical stability	
Stability	Stable.
Explosion data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.
Possibility of hazardous reactions	
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	
Conditions to avoid	Protect from moisture. Contact with foodstuffs.
Incompatible materials	
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	
Hazardous decomposition products Carbon oxides.	

# Section 11: Toxicological information

#### Acute toxicity

Information on likely routes of exposure

Product Information	No adverse health effects expected if the chemical is handled in accordance with this Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the chemical is mishandled and overexposure occurs are:
Inhalation	Irritating to respiratory system.
Eye contact	Causes serious eye damage.
Skin contact	Causes skin irritation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if

	swallowed.			
Symptoms	May cause redness and tearing of the eyes. Erythema (skin redness). Coughing and/ or wheezing. Difficulty in breathing. Irritation/Corrosion.			
Acute toxicity				
Numerical measures of toxicity				
ATEmix (oral)	1579.441 mg/kg			

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium carbonate	= 4090 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2300 mg/m <sup>3</sup> (Rat)2 h
Sodium percarbonate	= 1034 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Disodium metasilicate	= 1153 mg/kg (Rat)	-	-

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye damage.	
Respiratory or skin sensitization	No information available.	
Germ cell mutagenicity	No information available.	
Carcinogenicity	No information available.	
Reproductive toxicity	No information available.	
STOT - single exposure	May cause respiratory irritation. Classification is based on mixture calculation methods based on component data.	
STOT - repeated exposure	No information available.	
Aspiration hazard	No information available.	
Data used to identify the health effects	Refer to Section 16 for Key literature references and sources for data used to compile the SDS.	

# Section 12: Ecological information

# **Ecotoxicity**

Aquatic ecotoxicity

Keep out of waterways.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Sodium carbonate	-	LC50: =300mg/L (96h, Lepomis macrochirus)	EC50: =265mg/L (48h, Daphnia magna)
		LC50: 310 - 1220mg/L (96h,	Daprinia magna)
		Pimephales promelas)	
Sodium percarbonate	-	LC50: =70.7mg/L (96h,	EC50: =4.9mg/L (48h,
		Pimephales promelas)	Daphnia pulex)
Disodium metasilicate	-	LC50: =210mg/L (96h,	-
		Brachydanio rerio)	

Terrestrial ecotoxicity	There is no data for this product.
Persistence and degradability	Biodegradable.
Bioaccumulative potential	
Bioaccumulation	There is no data for this product.
Mobility in soil	
Mobility	No information available.
Other adverse effects	
No information available.	

# Section 13: Disposal considerations

#### Waste treatment methods

Waste from residues/unused products	Dispose of product in packaging in a way that is consistent with the EPA Consolidation 30 April 2021 of the Hazardous Substances (Disposal) Notice 2017 and the Act. Treat the substance using a method that changes the characteristics or composition of the substance so that the substance is no longer a hazardous substance; or export the substance from New Zealand as waste.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal

# Section 14: Transport information ROAD AND RAIL TRANSPORT Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS. IATA Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

 IMDG
 Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous

 Goods Code (IMDG Code) for transport by sea;
 NON-DANGEROUS GOODS.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

#### Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

# Section 15: Regulatory information

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

EPA New Zealand HSNO approval code or group standard	HSR002503 - Additives, Process Chemicals and Raw Materials (Subsidiary Hazard)
National regulations	There are no applicable tolerable exposure limits or environmental exposure limits according to the EPA Controls for Hazardous Substances
Certified handlers, tracking and controlled substance license requirements	Certified handlers are required for some substances. This includes substances requiring a controlled substance license, and most explosives, vertebrates toxic agents, and certain fumigants. Acutely toxic substances which are a Category 1 or 2, such as pesticides also require Certified handlers. Please check the Health and Safety at Work Act 2015 for further information Tracking is required for some highly hazardous substances. These substances need to be under the control of an appropriately trained person or appropriately secured. Please check the Health and Safety at Work Act 2015 for further information Controlled substance licenses are required to possess certain explosives, vertebrate toxic agents and fumigants. See Part 7 of the Health and Safety at Work Regulation 2017 for more information

#### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories		
NZIOC	Contact supplier for inventory compliance status.	
TSCA	Contact supplier for inventory compliance status.	
DSL/NDSL	Contact supplier for inventory compliance status.	
EINECS/ELINCS	Contact supplier for inventory compliance status.	
ENCS	Contact supplier for inventory compliance status.	
IECSC	Contact supplier for inventory compliance status.	
KECL	Contact supplier for inventory compliance status.	
PICCS	Contact supplier for inventory compliance status.	
AIIC	Contact supplier for inventory compliance status.	
TCSI	Contact supplier for inventory compliance status.	
Legend: NZIoC - New Zealand Inventory of Chemicals TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances AIIC- Australian Inventory of Industrial Chemicals TCSI - Taiwan Chemical Substance Inventory		

# Section 16: Other information

Supplier Safety Data Sheet 05/ 2022

Prepared By Revision date: Reason(s) For Issue:	SDS Services). 06-Aug-2024 Revised Primary SDS Updated Formulation			
Revision Note: ***Indicates updated data since last publication. Key or legend to abbreviations and acronyms used in the safety data sheet				
PBT: Persistent, Bioaccumu	2			
TWA TWA (tim Ceiling Maximum	URE CONTROLS/PERSONAL e-weighted average) I limit value esignation en	PROTECTION STEL * +	STEL (Short Term Exposure Limit) Skin designation Sensitizers	
Agency for Toxic Substances U.S. Environmental Protectio European Food Safety Autho Environmental Protection Age Acute Exposure Guideline Le U.S. Environmental Protectio	ency	Eungicide, and Rode	enticide Act	

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Disclaimer

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since IXOM Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their IXOM representative or IXOM Operations Pty Ltd at the contact details on page 1.

IXOM Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

End of Safety Data Sheet