

Ecas4® Catholyte

Safety Data Sheet (Conforms to Annex II of REACH (Regulation (EC) No 1907/2006) – Regulation (EU) No 2020/878)

SECTION 1 Identification of the substance / mixture and of the company / undertaking

1.1 Product Identifier

Product name	Ecas4® Catholyte
Chemical Name	Not Applicable
Synonyms	Not Applicable
Proper Shipping Name	Not Applicable
Other means of identification	Electrochemically activated alkaline solution

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Mild detergent
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1.3 Details of the supplier of the safety data sheet

Registered company name	Ecas4 Australia Pty Ltd
Address	Unit 8, 1 London Road, Mile End South SA 5031
Telephone	08 8122 7166
Fax	08 8152 0321
Website	www.ecas4.com.au
Email	info@ecas4.com.au

1.4 Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	08 8122 7166 (office hours)

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Not applicable
Classification	Not applicable

2.2 Label elements

Hazard pictogram(s)	Not Applicable
Signal word	None

Hazard statement(s)

None

Precautionary statement(s) – Prevention

Not applicable

Precautionary statement(s) – Response

Not applicable

Precautionary statement(s) – Storage

Not applicable

Precautionary statement(s) – Disposal

Not applicable

Safety precaution(s)

Keep out of the reach of children.

2.3 Other hazards (not relevant for the classification)

Special danger of slipping by leaking / spilling product.

SECTION 3 Composition / information on ingredients

3.1 Substances

See section below for composition of Mixtures

3.2 Mixtures

Name of substance	1. CAS No. 2. EC No. 3. Index No. 4. REACH Reg. No.	Weight%	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Pictograms
Sodium hydroxide	1. 1310-73-2 2. 215-185-5 3. 011-002-00-6 4. 01-2119457892-27-00029	<0.1	Not Classified	Not applicable
Sodium chloride	1. 7647-14-5 2. 231-598-3 3. not Available 4. 01-2119485491-33	0.5	Not Classified	Not applicable
Water	1. 7732-18-5 2. 231-791-2 3. not Available 4. not Available	99.4	Not Classified	Not applicable

SECTION 4 First aid measures

4.1 Description of first aid measures

Eye Contact	Rinse thoroughly with plenty of water. Remove contact lenses, if present and easy to do. Get medical attention if irritation persists.
Skin Contact	In case of prolonged exposure and discomfort: remove residues with water. Remove contaminated clothing, including shoes, and wash thoroughly the affected skin with water. Consult a physician if irritation persists. Wash contaminated clothing before reuse.
Inhalation	Bring immediately to fresh air. In case of persistent dizziness or nausea, consult a physician.
Ingestion	DO NOT induce vomiting: give plenty of water to rinse the throat and dilute. If in doubt, contact a Poisons Information Centre or a doctor.

4.2 Most important symptoms and effects, both acute and delayed

In case of contact with eyes, may cause a burning sensation and red eyes. If swallowed, may cause heartburn and abdominal pain. No known symptoms and delayed effects.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

5.1 Extinguishing media

There is no restriction on the type of extinguisher which may be used. Use extinguishing agent suitable for type of surrounding fire.

5.2 Special hazards arising from the substrate or mixture

Non-combustible.

5.3 Advice for firefighters

Not applicable, as the Ecas4 Catholyte is composed of water for more than 99% (non-combustible material).

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Minimise the exposure to the product (see Section 8). In case of accidental contact, dilute with water.

6.2 Environmental precautions

The product does not present any potential risks for the environment (see Section 12).

6.3 Methods and material for containment and cleaning up

Contain and absorb spill with sand, earth, inert material, or vermiculite. Wipe up.

No special precautions are required for the disposal of the contaminated material. Packaging may be recycled.

6.4 Reference to other sections

Refer additionally to Sections 8 and 13.

SECTION 7 Handling and storage

NO special precautions required. In the area where the solution is produced, it is appropriate to ensure a good ventilation.

7.1 Precautions for safe handling

Safe handling	For those with very sensitive skin, it may be advisable to wear gloves. Avoid contact with materials/substances incompatible. DO NOT use in combination with acids.
Fire and explosion protection	Not applicable
Other information	Handle in accordance with good industrial hygiene and safety practice. Store away from incompatible materials and foodstuff containers. Provide adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Suitable container	Store away from light and in sealed containers, airtight, opaque HDPE or glass. Make sure that the container is properly labelled.
Storage incompatibility	DO NOT store together with acids.

7.3 Specific end use(s)

There are no particular end uses other than the relevant identified uses listed in Section 1 of this safety data sheet.

SECTION 8 Exposure controls / personal protection

Avoid prolonged contact with skin. Use good personal hygiene practices. The Ecas4 Catholyte does not constitute danger to the safety of operator or animals. The accumulation of vapours should be prevented, especially in environments with poor ventilation; mechanical suction may be appropriate in such situations.

8.1 Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controls

Under normal conditions of use, there is NO need to apply specific exposure control measures. Provide adequate ventilation in the place of use.

Eye and face protection	NO special protection required during normal use of the product; in case of manipulation of large quantities, wear eye protection.
Skin protection	NO special protection required during normal use of the product; in case of prolonged contact and manipulation of large quantities, wear protective gloves made of latex or rubber.
Respiratory protection	NO special protection required during normal use of the product; provide adequate ventilation.
Environmental exposure controls	NO special precautions required.

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Clear, homogeneous, and transparent liquid (like water) with distinctive odour.		
Physical state	Liquid	Vapour pressure (kPa)	about 1.75 (at 20 °C)
Odour	Mild saline odour	Solubility in water	Completely miscible
Odour threshold	Not Available	Vapour density (Air = 1)	Not Available
pH (as supplied)	12.0 ± 0.5	Decomposition temperature	Not Applicable
Melting point / freezing point (°C)	about 0 °C	Viscosity (cSt)	about 1 (at 20 °C)
Initial boiling point and boiling range (°C)	about 100 °C	Relative density (Water = 1)	1
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not explosive
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (mN/m)	about 73 (at 20 °C)
Lower Explosive Limit (%)	Not Applicable	VOC (g/L)	Not applicable

9.2 Other information

Information with regard to physical hazard classes: Aerosols – Pressurised container: May burst if heated.

SECTION 10 Stability and reactivity

The Ecas4 Catholyte is stable under normal ambient temperature and pressure conditions. If properly stored (in sealed containers, watertight, made of HDPE or opaque glass, and preferably at temperatures between 5 and 10 °C), the mixture maintains its characteristics for a period up to 2 months.

10.1 Reactivity	Avoid contact with strong acids and reactive metals (see Section 7).
10.2 Chemical stability	As a dilute aqueous solution, the Ecas4 Catholyte is stable under the normal conditions of temperature and pressure and in unopened containers stored in a cool, ventilated place.
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	The solution can degrade / decompose if stored improperly. DO NOT expose to direct sunlight and to heat sources. DO NOT mix with other products. Avoid contact with acids.
10.5 Incompatible materials	Reactive metals in general.
10.6 Hazardous decomposition products	There are no known hazardous decomposition products.

SECTION 11 Toxicological information

11.1 Information on toxicological effects

Inhalation	Breathing in mists or aerosols may produce respiratory irritation
Ingestion	Large amounts may cause heartburn, nausea or abdominal pain
Skin Contact	Contact with skin may result in irritation
Eye Contact	Contact may cause a burning sensation and redness of the eye

Acute toxicity	✗	Carcinogenicity	✗
Skin Irritation / Corrosion	✗	Reproductivity	✗
Serious Eye Damage / Irritation	✗	STOT – Single Exposure	✗
Respiratory or Skin sensitisation	✗	STOT – Repeated Exposure	✗
Mutagenicity	✗	Aspiration Hazard	✗

Legend: ✗ Data either not available or does not fill the criteria for classification
 ✓ Data available to make classification

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

11.2.2. Other information

Not available.

SECTION 12 Ecological information

12.1 Toxicity

It may cause localised variations in pH endangering the aquatic life.

12.2 Persistence and degradability

There is no bioaccumulation.

12.3 Bioaccumulative potential

Considering the great water solubility of NaOH, a significant bioconcentration of this species in organisms is not expected.

12.4 Mobility in soil

Sodium hydroxide is very soluble and mobile in water. In soil, its mobility depends on the amount of liquid phase present and the possibility to form hydroxides with metal ions present.

12.5 Results of PBT and vPvB assessment

Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7. Other adverse effects

This product does not contain any ingredient listed in the Annexes to the Montreal Protocol at a concentration $\geq 0.1\%$.

SECTION 13 Disposal considerations

NO special precautions required. Dilution with water can be taken into account. Where permitted, the solution may be disposed of into the sewer system without negative effects. Dispose of containers and unused product in accordance with regulations. Empty carefully and completely, if possible. Packaging may be recycled.

13.1 Waste treatment methods

Recommendation: Disposal according to local regulations.

SECTION 14 Transport information

The mixture does not fall within the scope of the transport legislation (NON-DANGEROUS GOODS). The product is normally produced and consumed locally (on-site) and is classified as non-hazardous. Use of dark containers is recommended, in order to protect the product from light.

Labels Required

Pictogram	None
Marine Pollutant	No
HAZCHEM	Not Applicable

SECTION 15 Regulatory information

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

None

National Inventory Status

Not applicable

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16 Other information

The Ecas4 Catholyte is an alternative, clean and ecological detergent solution, suitable for use on most surfaces, both inside and outside. The information contained herein is based on data (current state of knowledge and experience) considered accurate at the time of publication and are provided for free. The document is intended to describe the product only to health and safety requirements. Therefore, it shall not be interpreted as a guarantee of any specific quality for the product; these qualities depend on the conditions of the test or sale contract. It is the user's responsibility to safely use the product, checking its suitability, and to proceed to a proper disposal.

NO DECLARATIONS OR WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, QUALITY, OR OF ANY OTHER NATURE ARE MADE WITH RESPECT TO THIS INFORMATION AND TO THE PRODUCT TO WHICH THIS INFORMATION REFERS.

The information contained in this SDS is in compliance with:

- the Regulations (EC) No. 1907/2006 (REACH), (EC) No. 1272/2008 (CLP) and (EU) No. 2020/878;
- the *Globally Harmonized System of Classification and Labelling of Chemicals* (GHS), Rev. 8 (2019)

Revision 4	04/03/2025
Initial Date	18/08/2021

Other information

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008: Based on product test data and calculation method.

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