

MATERIAL SAFETY DATA SHEET

Zeco Eco Rinse Aid for Dishwashers

I01580



1. IDENTIFICATION

1.1. PRODUCT IDENTIFICATION

Name: Zeco Eco Rinse Aid for Dishwashers
Description: Rinse agent for professional dishwashers
IS Code: I01580

1.2. SUPPLIER IDENTIFICATION

Manufacturer: Innu-Science Canada Inc
Address: 1777 Boulevard Nobel, Local F
Sainte-Julie, QC, CANADA, J3E 1Z6
Phone: (450) 922-4666
Fax: (450) 922-7776
Contact (CAN): Ali Kademi
Email: ali.kademi@innu-science.com
Internet: <http://www.innu-science.com>

1.3. EMERGENCY PHONE NUMBER

UK National Poisons Emergency number:
44 (0) 845 4647

2. HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF MIXTURE ACCORDING TO THE REGULATION 1272/2008/EC

Pictogram:



Signal Word: Danger!

Hazards: H318: Causes severe eye damage.

Precautions: P264: Wash hands thoroughly after use.
P280: Wear eye protection (safety glasses).

First aids: P305 + P351 + P338 + P337 + P313

If comes into eyes, rinse cautiously with water for several minutes.
Remove contact lenses if present and easy to do. Continue rinsing. If eye
irritation persists, Get medical advice/attention

Includes: Alcohols, C8-C10, ethoxylated propoxylated and citric acid

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2.2. CLASSIFICATION OF MIXTURE ACCORDING TO THE 1999/45/CE REGULATION

Pictogram:



Signal Word: Irritant

Classification: R36: Irritating to eyes

Safety phrases: S2 + S25 + S26 + S39 + S50.

Keep out of the reach of children. Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear safety glasses. Do not mix different cleaners. Avoid inhaling sprayed product. Seek medical advice if symptoms appear.

Includes: Alcohols, C8-C10, ethoxylated propoxylated and citric acid

3. COMPOSITION / INFORMATIONS ON INGREDIENTS

3.1. COMPOSITION ACCORDING TO THE CLP REGULATION (1272/2008/EC)

Ingredient name	EINEC number	Reg. number	CAS number	Concentration (%)	Pictogram	H Phrases	Category
Alcohols, C8-C10, ethoxylated propoxylated	-	-	68603-25-8	15 - 20	GHS05	H302 H318	Acute Tox. 4 Eye Dam. 1
Citric acid	201-069-1	-	77-92-9	1 – 5	GHS07	H319	Eye Irrit. 2

For full text, see section 16.

3.2. COMPOSITION ACCORDING TO REGULATION (67/548/CE)

Ingredient name	EINEC number	CAS number	Concentration (%)	Symbol	R - Phrases
Alcohols, C8-C10, ethoxylated propoxylated	-	68603-25-8	15 - 20	Xi	R41
Citric acid	201-069-1	77-92-9	1 – 5	Xi	R36

For full text, see section 16.

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4. FIRST AID MEASURES

- | | |
|---------------------------|---|
| 4.1. Eyes contact: | Check for and remove contact lenses. In case of contact with eyes, rinse immediately with plenty of water for 20 minutes. Consult a physician if symptoms develop. |
| 4.2. Skin contact: | Take off all contaminated clothing. Wash with water for 20 minutes. Consult a physician if symptoms develop. |
| 4.3. Ingestion: | Do not induce vomiting. Do not give anything by mouth to an unconscious person. Give several glasses of water if the victim is conscious. Get medical advice immediately. |
| 4.4. Inhalation: | In the event of inhalation, move the person to fresh air. Consult a physician if symptoms appear. |

5. FIRE FIGHTING MEASURES

- | | |
|---|---|
| 5.1. Suitable Extinguishing Media: | Use extinguishing media appropriate for the surrounding materials. |
| 5.2. Unsuitable Media: | None known. |
| 5.3. Specific Risks: | The increase in pressure resulting from fire or exposure to high temperatures can cause the container to explode. |

6. ACCIDENTAL RELEASE MEASURE

- | | |
|--|--|
| 6.1. Personal Precautions: | Avoid direct contact with eyes and skin. |
| 6.2. Environmental Precautions: | Avoid spreading discharged product and keep it from spilling or coming in contact with the ground, waterways, drains and vents. |
| 6.2.1. Cleaning Methods: | Stop a spill if doing so poses no risk. Keep spills contained and soak them up with non-combustible, absorbent materials such as sand, earth, vermiculite or diatomite. Then place them in a container for disposal in accordance with local regulations (see Section 13). |

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7. HANDLING, USE AND STORAGE

- 7.1. Handling:** Wear appropriate personal protective equipment (see Section 8). Do not ingest the product and avoid direct contact with eyes and skin. Store in the original container or in an approved substitute container that is kept hermetically sealed when not in use. Do not reuse this container.
- 7.2. Storage:** Store in accordance with local regulations. Store in the original container in a dry, cool, well-ventilated area away from direct sunlight and incompatible materials (see Section 10). Keep the container hermetically sealed when the product is not in use. Once opened, containers should be resealed carefully and kept in a vertical position to avoid spills. Do not store in unlabelled containers.
- 7.3. Packaging:** Use the original container.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

- 8.1. Exposure limit values:** Not available.
- 8.2. Occupational exposure controls:**
No particular ventilation required. Good general ventilation should be sufficient to control the technician's exposure to airborne contaminants.
- 8.3. Eyes protection:** Safety glasses
- 8.4. Skin protection:** Long clothing
- 8.5. Respiratory protection:**
No respiration system required under normal conditions of use.
- 8.6. Hand protection:** Wear protective gloves (nitrile, latex, rubber)
- 8.7. Hygiene:** Wash hands thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1. Form:** Liquid
- 9.2. Colour:** Blue
- 9.3. Odour:** Characteristic
- 9.4. pH:** 3.00 – 4.00
- 9.5. Solubility:** Easily soluble in cold water

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- 9.6. **Flash point:** Not available
9.7. **Relative density:** 1.015 -1.030
9.8. **Viscosity:** 1.0 - 10.0 cP

10. STABILITY AND REACTIVITY INFORMATION

- 10.1. **Stability:** The product is stable.
- 10.2. **Substance to avoid:** Strong acids and strong oxidants.
- 10.3. **Hazardous decomposition:**
Under normal storage and use conditions, there should be no hazardous decomposition products.

11. TOXICOLOGICAL INFORMATION

11.1. Potential severe health effect

- Inhalation: Can cause irritation to the respiratory system.
Ingestion: Can cause burns to the digestive tract.
Skin contact: Cause burns to skin.
Eye contact: Serious eye damage can occurs.

11.2. Severe toxicity

Ingredient name	Test/Type	Species	Dosage
Alcohols, C8-C10, ethoxylated propoxylated	LD50/oral	Rat	616 mg/Kg
Citric acid	LD50/oral	Rat	3000 mg/Kg

11.3. Potential chronic health effect

- Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Toxicity to reproduction:
No known significant effects or critical hazards.

11.4. Overexposure signs/symptoms

- Inhalation: May cause respiratory tract irritation, tearing, coughing

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Ingestion:	May cause burning sensation to mouth, thorax and stomach, stomach pain, nausea, vomiting.
Skin contact:	May cause burning sensation to skin, redness, swelling.
Eye contact:	Serious irritation, eye burns, and permanent damage.

12. ECOTOXICOLOGICAL INFORMATION

12.1. Persistence, degradability and mobility

Not available.

13. DISPOSAL CONSIDERATION

13.1. Waste disposal: Avoid creating or minimize waste. Dispose of excess and non-recyclable products with an authorized waste collection provider. Disposal of this product and its solutions and by-products should always be in accordance with regulations on environmental protection and waste disposal, as well as the regulations of all local authorities.

13.2. Hazardous waste: To the supplier's current knowledge, this product is not considered hazardous waste as defined by Directive EU 91/689/EEC.

14. TRANSPORTATION INFORMATION

14.1. Regulatory information

UN/IMDG/IATA/ADNR/ADR:

Regulated product:

Sodium Hydroxide solution, UN1824, Class 8 PGIII

Limited quantity 5 liters

15. REGULATORY INFORMATION

15.1. Regulation/Legislation on substance :

Safety and classification according to the CLP (Regulation 1272/2008/EC and Regulation 453/2010EC, Annexe I) and 1999/45/CE and its amending.

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	1272/2008/EC	1999/45/EC
Symbol:		
Hazards identification:	Danger!	Irritant
Risk Phrases:	H318	R36
Precautions:	P264 P280 P305 P351 P338 P337 P313	S2 S25 S26 S39 S50

15.2. Product use: Industrial applications

15.3. Additional warning: KEEP out of the reach of children!

16. OTHER INFORMATION

16.1. Full text of sections 2,3 and 15 :

H302:	Harmful if swallowed
H318:	Cause severe eye damage.
H319:	Cause serious eyes irritation
Xi:	Irritant
P264:	Wash hands thoroughly after handling.
P280:	Wear protective gloves/protective clothing/eyes protection/face protection.
R36:	Irritating to eyes.
R41:	Risk of serious damage to eyes
P305:	If in eyes (...)
P313:	Get medical advice.
P337:	If eye irritation persists (...)
P338:	Remove contact lenses if present and easy to do. Continue rinsing
P351:	Rinse cautiously with water for several minutes.
S2:	Keep out of the reach of children.
S25:	Avoid contact with eyes.
S26:	In case of contact with eyes, rinse immediately with plenty of water for several minutes and seek medical advice.
S39:	Wear eye/face protection.
S50:	Do not mix (...)

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16.2. Notice to the reader :

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier nor any of its sub-contractors assumes any liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material or preparation is the responsibility of the user. All materials and preparations may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.