

Neutralizer

CLASSIFICATION

■ Neutralizing Rinse Additive

PRODUCT DESCRIPTION

- Meutralizer is a liquid neutralizer agent for use in ultrasonic cleaners and automated washers for neutralizing alkaline residues left on surgical instruments, anesthetic utensils, laboratory equipment and washer equipment.
- Meutralizer contains citric acid and a chelating agent.
- Meutralizer is compatible with stainless steel, anodized aluminum and most non-ferrous metals.
- Neutralizer will restore luster to tarnished equipment.
- Meutralizer contains no surfactants.
- Meutralizer is not a medical instrument sterilant or high level disinfectant.

FEATURES AND BENEFITS

ENTURES AND DENERITS						
FEATURE	BENEFIT					
Contains a rinsing agent	Rinses spot-free					
Mild formula	Effectively neutralizes alkaline residues from surgical instruments without harm					
Low foaming	Effective for use in all automated washers					

DIRECTIONS FOR USE

Uses

- Neutralizing Rinse Additive for use in automated washing equipment.
- Solution is for use after cleaning with alkaline detergents. Prevents carryover of alkalinity on wash goods into subsequent rinse. Suitable for stainless steel instruments, basins, containers, glassware, and respiratory therapy articles.

Precautionary Statements

- FOR INDUSTRIAL USE ONLY
- A KEEP OUT OF REACH OF CHILDREN
- **WARNING:** CAUSES EYE AND SKIN IRRITATION.
- Wear suitable gloves and eye protection.
- Wash thoroughly after handling.

Directions

Add 1/8 − ¼ oz per gallon of water or add 1-2 mL per liter of water. Dilutions vary depending upon temperature, soil load and water quality.

SPECIFICATIONS

Contains	Proprietary, NJ0509135880810						
	Citric Acid	77-92-9					
Physical state	Liquid						
Flash point	>100° C	····					
Color	Colorless						
Odor	Odorless						
рН	1.2 [Conc. (% w/w): 100%] (Use dilution	n: 2.8 to 3.4)					
Relative density	1.18						
Solubility	Easily soluble in the following materials:	cold water and hot water.					

ENVIRONMENT & DISPOSAL

Hazard Rating: Health – 2 Fire – 0 Physical Hazards – 0

WHMIS Canada: Class E: Corrosive material.

Canada Inventory: All components are listed or exempted.

- This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.
- HCS USA: Irritating material
- J.S. Federal Regulations:

All components are listed or exempted.

- SARA 302/304/311/312 extremely hazardous substances: No listed substance.
- SARA 302/304 emergency planning and notification: No listed substance.
- A SARA 313 Form R report requirements: No listed substance

California Prop 65: No listed substance.

Waste Disposal – Product at Use Dilution - Canada & USA: Diluted product can be flushed to sanitary sewer. Discard empty container trash.

RCRA Classification USA: Unused product is D002 (Corrosive)

STABILITY & HANDLING & STORAGE

Product As Sold:

Stability: The product is stable. Under normal conditions of storage and use, hazardous

polymerization will not occur.

Products: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Polymerization: Under normal conditions of storage and use, hazardous polymerization will not occur.

Handling: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Storage: Keep out of reach of children. Store in a closed container.

FIRST AID MEASURES

Eye Contact: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses

and flush again. Get medical attention if irritation persists.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated

clothing and shoes. Get medical attention if irritation persists. Wash clothing before

reuse. Clean shoes thoroughly before reuse.

Inhalation: No special measures required. Treat symptomatically.

Ingestion: Get medical attention if symptoms occur.

READ MATERIAL SAFETY DATA SHEET BEFORE USING PRODUCT.

EMERGENCY HEALTH INFORMATION call: 1-800-328-0026

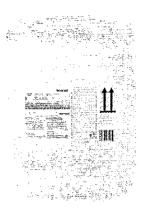
if located outside the United States and Canada, call collect, 1-651-222-5352 (number is in the US).

TRANSPORTATION INFORMATION

	UN number	Proper Shipping Name	g Class	Packaging Group	Additional Information
DOT/IMO/IMDG	Not	-	-	-	-
Classification	Regulated.		<u> </u>		

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes. See shipping documents for specific transportation information.





PACKAGING & PRODUCT NUMBERS

Size Available	Product Number +
18.9 L (5 US Gal)	6044205 (sold in both USA & Canada)
56.8 L (15 US Gal)	6044215 (sold only in USA)

Document can be made available in French, upon request



Material Safety Data Sheet



Product and company identification 1.

Trade name of product

: NEUTRALIZER

Product use

: Instrument cleaner

Product dilution information: Up to 1/4 oz/gal or 2 mL/L in water

Supplier's information

: Ecolab Healthcare Division 370 Wabasha Street N St. Paul MN 55102 5105 Tomken Road Mississauga ON L4W 2X5

1-866-781-8787

Code

; 913588-01

Date of issue

: 08-September-2010

EMERGENCY HEALTH INFORMATION: 1-800-328-0026 Outside United States and Canada CALL 1-651-222-5352 (in USA)

Hazards identification 2.

Product AS SOLD

Physical state

: Liquid.

Emergency overview

: WARNING!

No specific hazard.

Avoid contact with eyes, skin and clothing. Wash

thoroughly after handling.

Routes of entry : Skin contact, Eye contact, Inhalation, Ingestion

Potential acute health effects

Product AS SOLD

Eyes

: Irritating to eyes.

Skin

: Irritating to skin.

Inhalation

: No known significant effects or critical hazards.

Ingestion

: No known significant effects or critical hazards.

Product AT USE DILUTION

Liquid.

CAUTION!

No specific hazard.

No specific hazard.

Product AT USE DILUTION

No known significant effects or critical

hazards.

See toxicological information (section 11)

Composition/information on ingredients 3.

Product AS SOLD

% by weight CAS number Name 77-92-9 CITRIC ACID

Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

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First-aid measures 4

Product AS SOLD

: No known effect after eye contact. Rinse with water for Eve contact

a few minutes.

: No known effect after skin contact. Rinse with water Skin contact

for a few minutes.

Inhalation

: No special measures required. Treat symptomatically.

: Get medical attention if symptoms occur. Ingestion

Product AT USE DILUTION

No known effect after eye contact. Rinse with water for a few minutes.

No known effect after skin contact. Rinse with water for a few minutes.

No special measures required. Treat

symptomatically.

Get medical attention if symptoms occur.

5. Fire-fighting measures

Product AS SOLD

Auto-ignition temperature

: Not available.

Flammable limits

: Not available.

Hazardous thermal decomposition products : Decomposition products may include the following materials:

carbon dioxide

carbon monoxide

Special remarks on fire hazards : Not available.

Special remarks on explosion

: Not available.

hazards

Fire-fighting media and

instructions

: Use an extinguishing agent suitable for the surrounding fire.

Dyke area of fire to prevent runoff.

In a fire or if heated, a pressure increase will occur and the container may burst.

Special protective equipment

for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

required.

Accidental release measures 6.

Handling and storage

Product AS SOLD

Personal precautions

precautions

Environmental

: Use personal protective equipment as required.

: Avoid contact of large amounts of spilt material and

Avoid contact of large amounts of spilt material and runoff with soil and surface runoff with soil and surface waterways. waterways.

Methods for cleaning up

7.

Storage

: Use a water rinse for final clean-up.

Wash thoroughly after handling.

Product AT USE DILUTION

Use a water rinse for final clean-up.

Product AT USE DILUTION

Use personal protective equipment as

: Avoid contact with eyes, skin and clothing. Wash Handling

thoroughly after handling.

Product AS SOLD

; Keep out of reach of children. Store in a closed container.

Keep out of reach of children.

Exposure controls/personal protection 8.

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Exposure controls/personal protection 8.

Product AS SOLD

Engineering measures

: Good general ventilation should be sufficient to control

worker exposure to airborne contaminants.

Personal protection

Eves

: Safety eyewear should be used when there is a

likelihood of exposure.

Hands

: For prolonged or repeated handling, use the following

type of gloves: Impervious gloves.

Skin

: No protective equipment is needed under normal use

conditions.

Respiratory

: No special protection is required.

Product AT USE DILUTION

Good general ventilation should be sufficient

to control worker exposure to airborne

contaminants.

No protective equipment is needed under

normal use conditions.

No protective equipment is needed under

normal use conditions.

No protective equipment is needed under

normal use conditions.

No special protection is required.

Occupational exposure limits		TWA (8 hours)		STEL (15 mins)		Ceiling					
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
No exposure limit value known.											

Consult local authorities for acceptable exposure limits.

Physical and chemical properties 9.

Product AS SOLD

Physical state Flash point

: Liquid. : > 100°C

Colour

: Colourless. : Odourless.

Odour pΗ

: 1.2 [Conc. (% w/w): 100%]

Boiling/condensation: Not available.

point

Melting/freezing: Not available.

point

Relative density : 1.18

Vapour pressure: Not available. Vapour density: Not available. Odour threshold: Not available. Evaporation rate: Not available. : Not available. **Viscosity**

Dispersibility properties Solubility

and hot water.

LogK_{ow}

: Not available.

: Not available.

Stability and reactivity 10.

Product AS SOLD

Stability

: The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.

Conditions of instability

: Not available.

: Easily soluble in the following materials: cold water

Reactivity

: Not available.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

3/5

Product AT USE DILUTION

Liquid. > 100°C Clear. Odourless.

2.8 to 3.4

10. Stability and reactivity

Hazardous polymerisation

: Under normal conditions of storage and use, hazardous polymerisation will not occur.

11. Toxicological information

Potential acute health effects

Product AS SOLD

Eves

: Irritating to eyes.

Skin

: Irritating to skin.

Inhalation

: No known significant effects or critical hazards.

Ingestion

: No known significant effects or critical hazards.

No known significant effects or critical

Product AT USE DILUTION

hazards.

No known significant effects or critical

hazards.

No known significant effects or critical

hazards.

No known significant effects or critical

hazards.

Product AS SOLD

Potential chronic health effects

Carcinogenic effects

No known significant effects or critical hazards.No known significant effects or critical hazards.

Mutagenic effects
Teratogenic effects

No known significant effects or critical hazards.
No known significant effects or critical hazards.

Reproductive effects
Sensitization to Product

: No known significant effects or critical hazards.

Synergistic products

: Not available.

(toxicologically)

Toxicity data

Product/ingredient name	Test	Route	Result	Species
citric acid	LD50	Oral	3 g/kg	Rat
Sidio dold	LD50	Oral	11700 mg/kg	Rat
	LD50	Oral	7280 mg/kg	Mouse
	LD50	Oral	5040 mg/kg	Mouse
	LDLo	Oral	7 g/kg	Rabbit

Other adverse effects

Target organs

: Not available.

12. Ecological information

Ecotoxicity

Waste disposal

: Not reported

13. Disposal considerations

Product AS SOLD

: Diluted product can be flushed to sanitary sewer.

Discard empty container in trash.

Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

14. Transport information

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Product AS SOLD TDG Classification

TDG Classification

Proper shipping name

Class

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14. Transport information

Packing group

For transport in bulk or using IMDG regulations, see shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

15. Regulatory information

Product AS SOLD

Product AT USE DILUTION

WHMIS

: Class E: Corrosive material

Not hazardous by WHMIS criteria.

Canada inventory

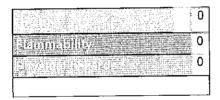
: All components are listed or exempted.

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16. Other information

Product AS SOLD

Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)



NFPA Aerosol Level

Date of issue

: 08-September-2010

Date of previous issue

: No previous validation

Responsible name

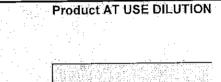
: Regulatory Affairs

1-800-352-5326

 \overline{V} Indicates information that has changed from previously issued version.

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.



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