

MATERIAL SAFETY DATA SHEET

1) IDENTIFICATION

PRODUCT NAME: **EPOLEON®** **NnZ** DEODORIZER

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MANUFACTURER:

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2) COMPOSITION/INFORMATION ON INGREDIENTS

	<u>WT %</u>	<u>CAS NO.</u>
Glycine betaine	11.25	107-43-7
Sodium citrate	2.0	68-04-2
Diethanol AMINE	2.25	111-42-2
Benzen sulfonic acid, dodecyl-, sodium salt (8cl, 9cl)	6.0	25155-30-0
Polyethylene glycol lauryl ether	10.0	9002-92-0
Water	68.5	7732-18-5

"Water" does not include hydrate water or water in aqueous solution of other ingredients.

*Solid ingredients: 14.6 WT%

3) HAZARDS IDENTIFICATION

Hazardous Classification: No Classification

4) FIRST AID MEASURES

	<u>HAZARDS</u>	<u>FIRST AID</u>
Contact with Skin	None	Flush with water
Contact with Eyes	None	Flush with water (If irritation results, call a physician)
Inhalation	None	Gargle
Ingestion	None	Drink large quantities of water

5) FIRE FIGHTING MEASURES

Flash Point	none
Method Used	JIS
Flammable Limits	none
Extinguishing Media	not required
Fire and Explosion Hazards	none
Fire-Fighting Equipment	not required

6) ACCIDENTAL RELEASE MEASURES

Wipe small spills with cloth, or flush with water.

7) HANDLING AND STORAGE

Handling: Use goggles or chemical goggles
Storage Conditions: Avoid direct sunlight.

1. Three (3) year guarantee after shipment at storage temperatures between 3° - 20°C.
2. One (1) year guarantee after shipment at maximum storage temperature of 40°C.

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear chemical resistant gloves.
Use safety glasses.

9) PHYSICAL AND CHEMICAL PROPERTIES

pH	4.5 - 6.7 (at 25° C)
Boiling Point	100° C
Freezing Point	-1.0° C
Vap. Press	same as water
Soluble in Water	completely
Sp. Gravity	1.05 ± 0.05 (at 25° C)
Range of Molecular Weight	50 - 800
Appearance	transparent
Odor	slight odor

10) STABILITY AND REACTIVITY

Stability	stable
Incompatibility	stable
Specific Materials to Avoid	consult manufacturer for specific cases
Hazardous Decomposition Products	none
Hazardous Polymerization	will not occur

11) TOXICOLOGY INFORMATION

Acute Toxicity by Oral (mouse):

On this dosage by the ratio of 10 ml/kg of body weight, the mouse was observed alive.

Acute Toxicity by Inhalation (mouse)

No abnormal symptom was observed.

12) ECOLOGICAL INFORMATION

Biodegradable

13) DISPOSAL CONSIDERATIONS

Disposal Method: material should be placed in container and disposed of according to local provisions.

14) TRANSPORTATION INFORMATION

Handle containers with care. Do not drop containers, carry upside down or handle in a rough manner.

15) REGULATORY INFORMATION

None.

16) OTHER INFORMATION

Included Amount of Toxic Substance: None