

## MATERIAL SAFETY DATA SHEET

### 1) IDENTIFICATION

PRODUCT NAME: **EPOLEON<sup>®</sup> 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