

## MATERIAL SAFETY DATA SHEET

### 1) IDENTIFICATION

PRODUCT NAME: **EPOLEON<sup>®</sup> NnZ** DEODORIZER

DATE PRINTED: January 07, 2002

#### MANUFACTURER:

New Epoleon Corporation  
14<sup>th</sup> Floor, B Wing Shuwa Shiba-Park Bldg.  
4-1, Shiba-Koen, 2-Chome, Minato-Ku  
Tokyo 105-8568 Japan

PHONE: 81(3)5405-6065  
FAX: 81(3)3459-9712

### 2) COMPOSITION/INFORMATION ON INGREDIENTS

	<u>WT %</u>	<u>CAS NO.</u>
Glycine betaine compound	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