

Chemical Name: NnZ

Manufacturer: Epoleon

Container size: 1 gallon

Location: VLA

Disposal: Place empty container in trash.

MATERIAL SAFETY DATA SHEET

1) IDENTIFICATION

PRODUCT NAME: EPOLEON NnZ DEODORIZER DATE PRINTED: February 10, 2005

MANUFACTURER:

New Epoleon Corporation PHONE: 81(044)270-5010 19-11, 3-chome, Nakase FAX: 81(044)288-1513

Kawasaki-Ku, Kawasaki-shi Kanagawa-ken, 210-0818 Japan

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-,	6.0	25155-30-0
sodium salt (8cl, 9cl)		
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> </u>	FIRST AID	
Contact with Skin	None	Flush with water	
Contact with Eyes	None	Flush with water	
	(If irrit	tation results, call a	physician)
Inhalation	None	Garqle	

TALANDIC ELDCA YLD

Drink large quantities of water Ingestion None

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

Boiling Point 100° C Freezing Point -1.0° C

Vap. Press same as water Soluble in Water completely

Sp. Gravity $\begin{array}{ccc} \text{1.05} \pm \text{0.05} \text{ (at 25°C)} \\ \text{Range of Molecular Weight} & \text{50 - 800} \\ \text{Appearance} & \text{transparent} \\ \text{Odor} & \text{slight odor} \\ \end{array}$

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