

MATERIAL SAFETY DATA SHEET

EPOLEON CORPORATION-DIVISION OF AIKOH CO., LTD.
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PRODUCT NAME: EPOLEON[®] NnZ DEODORIZER

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EPOLEON is a deodorizer made from fine organic chemicals and complex compounds. EPOLEON is biodegradable, emulsifiable, a dissolver and neutralizer. EPOLEON is a chemical product with a normal substance which contains no violent or poisonous components.

1. 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%

2. PHYSICAL DATA

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, slightly yellow
Odor	slight odor

® INDICATES A REGISTERED TRADEMARK OF AIKOH CO., LTD.

NnZ : (2/3)

3. FIRE AND EXPLOSION HAZARD DATA

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

Fire-Fighting Equipment

not required

4. REACTIVITY DATA

Stability	stable
Incompatibility	stable (specific materials to avoid: consult manufacturer for specific cases)
Hazardous Decomposition Products	none
Hazardous Polymerization	will not occur

5. ENVIRONMENTAL AND DISPOSAL INFORMATION

Action to take for spills/leaks	flush with water
Disposal Method	material should be placed in container and disposed of according to local provisions

6. HEALTH HAZARD DATA

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 symptoms were observed.

7. FIRST AID PROCEDURE

	<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 <u>NnZ : (3/3)</u>

8. THE INCLUDED AMOUNT OF TOXIC SUBSTANCE

<u>NAME OF SUBSTANCE</u>	<u>MEASURED RATE</u>	<u>METHOD OF ANALYSIS</u>
1) Cadmium	None	According to JIS
2) Cyanide	None	"
3) Organic Phosphorous	None	"
4) Lead	None	"
5) Chromium (VI)	None	"
6) Arsenic	None	"
7) Mercury	None	"
8) Alkyl Mercury	None	"
9) PCB	None	"

9. HANDLING PRECAUTIONS

Eye Protection	Use goggles or chemical goggles
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10. ADDITIONAL INFORMATION

Special precautions to be taken in handling and storage:

Avoid direct sunlight.

Storage Conditions:

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.