

Material Safety Data Sheet

Manufacture : SHABONDAMA SOAP CO., LTD.
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Reference number: 32105-01



Creation date: July 24, 2004

Product name: EM NATURAL SOAP-BATH

Properties of substance:

Chemical name: Fatty Acid Sodium Salt
Purity: More than 96%
Chemical formula or structural formula: $\text{RCOO} \cdot \text{Na}$
Governmental gazette Ref. No. (Chemical Products Control law): 2-611
CAS No.: 143-19-1(Oleic acid Na), 822-16-2(Stearic acid Na), etc.

Classification of Hazards:

Name of classification: Not applicable to criteria of classification
Risk: Natural oil-and-fats used. No risk.
Hazards: N/A
Environmental influence : A surface active agent with good decomposition nature.

First Aid Treatment:

In case of entering into eyes: Removed with soft cloth or soft paper without rubbing an eye, and rinse with running water. See a doctor if necessary.
In case of skin contact: Rinse with water or warm water.
In case of inhalation: Rinse mouth, throat, nose, etc. with water.
In case of swallowing: Rinse mouth thoroughly. In case of a large amount, induce vomiting by ingesting water or milk. Seek medical attention if necessary.

In case of fire:

Extinguishing method:	Normal extinguishing method.
Extinguishing media:	Water, powder, carbon dioxide, foam, etc.

Treatment for leakage:

In case of a small amount:	After sweeping and collecting, wipes off by a piece of cloth containing moisture etc.
In case of a large amount:	After sweeping and collecting, washes away with water.

Precaution for handling and storage:

Handling:	Avoid moisture and acid.
Storage:	Avoid Hot and humid place and direct sunrays. Store indoors.

Protective measures from exposure:

Controlled concentration:	N/A
Measures on facilities:	When there is the generation of a coarse particulate, the local gas-exhausting device is operated. It is desirable to install facilities for washing eyes and body near the place.
Protective devices:	Wear masks and safety goggles, if necessary.

Physical/Chemical properties:

Appearance:	Pale yellowish-white solid
Boiling point:	N/A
Vapor pressure:	N/A
Volatility:	N/A
Melting point:	260°C
Specific gravity:	0.40

Information on risk:

Flash point:	N/A
Ignition point:	N/A
Flammability:	Fire retardancy.
Stability and reactivity:	It is stable under the usual handling conditions.
Others:	No particular comment.

Toxicological information

(The reference value by the similar substance):

Irritativensess ¹⁾ :	At high concentration, maybe stimulative to skin. At low concentration, little risk. When you get it into your eyes, you do not receive severe injuries although your eyes may be bloodshot with a stimulus.
Acute toxicity:	Relatively harmless : LD ₅₀ > 2,000mg/kg. Powders soap : LD ₅₀ > 2,000mg/kg. EM 1,EM 3, EM W, LD ₅₀ > 20ml/kg. (Oral administration, Female mouse) ※LD = lethal dose
Subacute toxicity:	N/A
Chronic toxicity:	N/A
Carcinogenicity:	N/A
Fertile toxicity:	N/A
Teratogenicity:	N/A

Environmental influence(The reference value by the similar substance)

Decomposition ¹⁾ :	97% and over (10 days: applies to Chemical Products Control low)
Accumulation ¹⁾ :	No influence
Poisonous to fish ¹⁾ :	TLm 20.5mg/L (carp)

Cautions at disposal:

Burning or washing away little by little or commission industrial wastes processor who obtained permission of prefectural governor's.

Cautions at transportation:

Avoid getting wet and handle not to damage by falling and tumble.

Applicable laws: N/A

Reference:

- 1)Japan Soap and
Detergent Association: “*SEIKATSU TO SENJO*”
- 2)Japan Soap and
Detergent Association: “*GOUSEISENZAI NO ANNZENNSEI NI KANSURU
GAKUJYUTUBUNKEN YOUSHSYU*”
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Others:

Handling of written contents: All data or references were not investigated.
There may be unknown data.
Moreover, if one make public a new theory or correct
a common opinion, we must rewrite this sheet.
When you make a important decision according to
these data, we recommend that you read the
reference carefully or confirm by experiment. In
addition, numerical values of purity and
physiochemical property etc. are not the guarantee
values. These data are investigated on normal
handling. So you must treat this soap carefully at
special handling.