1. Product and company identification

Celanese Ltd.
222 W. Las Colinas Blvd., Suite 900N
Irving, TX  75039
United States
Phone:  972 443 4000
Internet:  www.celanese.com

Transportation emergency phone numbers:
For Chemical Emergency: Spill Leak Fire Exposure or Accident
Call CHEMTREC Day or Night
DOMESTIC NORTH AMERICA:  800-424-9300
INTERNATIONAL, CALL +1 703-527-3887 (collect calls accepted)

2. Hazards identification

Emergency Overview

This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR1910.1200)

This product is not considered hazardous under WHMIS.

CAUTION!
May cause eye irritation

Product Description

Appearance
  Form   liquid
  Odor   sweet
  Color  milky white

Potential health effects

Routes of exposure  Skin, eyes, ingestion

Immediate effects

Skin  Prolonged or repeated exposure may cause: skin irritation
Eyes  May cause eye irritation
Ingestion  May cause gastrointestinal irritation.
3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No</th>
<th>Percent %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>54 - 56</td>
</tr>
<tr>
<td>Vinyl copolymer</td>
<td></td>
<td>44 - 46</td>
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</tbody>
</table>

4. First aid measures

General Information
Wash contaminated clothing before re-use.

Skin
If symptoms persist, call a physician. Wash off with soap and water.

Eyes
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion
If swallowed, seek medical advice immediately and show this container or label.

5. Fire-fighting measures

Suitable extinguishing media
The product in solution form does not burn. The product will burn only after the water it contains is driven off. For dry polymer, use alcohol resistant foam, carbon dioxide (CO2) or dry chemical.

Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

Other Information
This is a water-based product and presents no particular fire or explosion hazard

6. Accidental release measures

Personal precautions
Contaminated surfaces will be extremely slippery. Avoid contact with the skin and the eyes.

Environmental precautions
Do not flush into surface water or sanitary sewer system.

Methods for cleaning up
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Contaminated equipment (brushes, rags) must be cleaned immediately with water. Dispose of in accordance with local regulations.
7. Handling and storage

Handling

Advice on safe handling
Open containers in ventilated area.

Protection - fire and explosion:
No special protective measures against fire required.

Storage

Technical measures/Storage conditions
Keep tightly closed in a dry and cool place. No special technical protective measures required.

Material storage
Protect from frost. Keep at temperatures between 5 and 25 °C (40 and 77 F).

Incompatible products
No special restrictions on storage with other products

8. Exposure controls / personal protection

OSHA Exposure Limits
No exposure limits established.

ACGIH Exposure Limits

Mexico National Exposure Limits

Exposure controls

Engineering measures
Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Protective equipment
A safety shower and eyewash should be readily available.

General advice
Avoid contact with skin and eyes.

Skin protection:
Wear impervious clothing and gloves when there is a reasonable chance for skin contact.
Eye/face protection:
safety glasses with side-shields.

9. Physical and chemical properties

Appearance

- Form: liquid
- Color: milky white
- Odor: sweet

Freezing point: 32° F
Boiling Point: 100 °C (212°F)
Bulk Density: 8.9 lbs/gal
pH: 4 - 8
Viscosity: <200 cPs
Specific Gravity: 1.05

10. Stability and reactivity

Reactivity
Stable under recommended storage conditions

Conditions to avoid
Do not freeze

Incompatible Materials
Materials that react with water

Possibility of hazardous reactions
No hazards to be especially mentioned.

11. Toxicological information

Toxicological data are not available. Observe the usual hygienic measures for handling chemicals.

12. Ecological information

Ecotoxicological data are not available. According to experience, the material has no harmful effect on the environment.
13. Disposal considerations

Disposal considerations
Note that this handling and disposal information may also apply to empty containers, liners and rinsate. State or local regulations or restrictions are complex and may differ from federal regulations. This information is intended as an aid to proper handling and disposal; the final responsibility for handling and disposal is with the owner of the waste. Dispose of spilled material in accordance with state and local regulations for waste that is non-hazardous by Federal definition. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.

14. Transport information

US Department of Transportation  Not regulated
TDG  Not regulated
ICAO/IATA  Not restricted
IMDG  Not regulated

15. Regulatory Information

US State Regulations
Chemicals associated with the product which are subject to the state right-to-know regulations are listed along with the applicable state(s):

California Prop. 65
WARNING: This product contains the following chemicals that are known to the State of California to cause cancer, birth defects or other reproductive harm.

Unless a concentration is specified in Section 3 of the MSDS, the chemical/s below are present in trace amounts.

1,4-dioxane (123-91-1)
Formaldehyde (50-00-0)
N-Methylolacrylamide (924-42-5)
Acrylamide (79-06-1)
Ethylene oxide (75-21-8)

U.S. FEDERAL REGULATIONS

TSCA Inventory
This product complies with the U.S. Toxic Substances Control Act (TSCA).
Material Safety Data Sheet

<table>
<thead>
<tr>
<th>Product name</th>
<th>Avicor® 2812 Emulsion (252812)</th>
<th>EMNA/EN</th>
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<tbody>
<tr>
<td>MSDS number</td>
<td>852015</td>
<td>Revision Date</td>
</tr>
<tr>
<td>Revision Number</td>
<td>1</td>
<td>Issuing date</td>
</tr>
</tbody>
</table>

CANADIAN REGULATIONS

WHMIS Classification:
Not a WHMIS controlled product.

All components are listed on the Canadian Domestic Substance List (DSL)

16. Other information

HMIS:  Health: 1  Flammability: 0  Physical Hazard: 0

Prepared By
Product Stewardship Department
Celanese

For more information, consult the Technical Data Sheet (www.celanese-emulsions.com)

Sources of key data used to compile the datasheet
Information contained in this safety data sheet is based on Celanese owned data and public sources deemed valid or acceptable. The absence of data elements required by ANSI or 1907/2006/EC indicates that no data meeting these requirements is available.

Changes against the previous version are marked by ***

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