1. Identification of the substance/preparation and the company/undertaking

**Product name**
EcoVAE® 405 Emulsion

**Manufacturer or supplier’s details**
Celanese Ltd.
222 W. Las Colinas Blvd., Suite 900N
Irving, TX  75039
United States
Phone: 972 443 4000
Internet: www.celanese.com

**Emergency telephone number**
(+65) 62656917 (Operations Room direct dial)
or fax request to +(65) 62664696 (Facsimile to Operations Room)
or email to posh.er@paccoffshore.com.sg

**In China Emergency Number:** 86-532-83889090 (NRCC)

2. Hazards identification

**Statements of Hazard**
Not a dangerous product according to GHS

3. Composition/Information on ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No</th>
<th>Percent %</th>
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<tbody>
<tr>
<td>Vinyl acetate - ethylene copolymer</td>
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<td>54 - 56</td>
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4. First aid measures

**General Information**
Wash contaminated clothing before re-use.

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

**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 allow material to contaminate ground water system. 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

Hygiene measures
Wash hands before breaks and at the end of workday When using, do not eat, drink or smoke Take off all contaminated clothing immediately Wash contaminated clothing before re-use

Advice on safe handling
Open containers in ventilated area.

Incompatible products
No special restrictions on storage with other products

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

Storage

Material storage
Protect from frost. Keep at temperatures between 5 and 25 °C (40 and 77 F).
8. Exposure controls / personal protection

ACGIH Exposure Limits
No exposure limits established.

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

Personal protective equipment

General advice
Avoid contact with skin and eyes.

Hygiene measures
Wash hands before breaks and at the end of workday When using, do not eat, drink or smoke Take off all contaminated clothing immediately Wash contaminated clothing before re-use

Eye protection
safety glasses

Hand protection
Chemicals resistant gloves
rubber gloves

Suitable material
These types of protective gloves are offered by various manufacturers. Please note the manufacturers’ detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used

9. Physical and chemical properties

Appearance
Form liquid
Color milky white
Odor sweet
Freezing point
Approx. 32 F°C
pH 4 - 5
10. Stability and reactivity

Reactivity
Stable under recommended storage conditions

Chemical Stability
No decomposition if stored and applied as directed.

Possibility of hazardous reactions
No hazards to be especially mentioned.

Conditions to avoid
Do not freeze.

Incompatible Materials
Materials that react with water

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

Product information
Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal. Diluted solution may be introduced into a biological purification plant, with permission of the responsible authorities.

Uncleaned empty packaging
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Regulations concerning reuse or disposal of used packaging materials must be observed.

14. Transport information

US Department of Transportation
Not regulated

ADR/RID
Not regulated

ADN
Not regulated

ICAO/IATA
Not restricted

IMDG
Not regulated
15. Regulatory information

INTERNATIONAL REGULATIONS
This preparation is not classified as dangerous according to Chinese legislation

16. Other information

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

Prepared By
Product Stewardship Department
Celanese

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

Changes against the previous version are marked by ***

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.

Further information
This information is based on our present state of knowledge. It shall describe our products regarding safety requirements and shall not be construed as a guarantee or statement of condition and/or quality