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<b>Product name</b>	Emulsion 5	<b>Revision Date</b>	EMNA/EN
<b>MSDS number</b>	85X090	<b>Issuing date</b>	Jul.20.2009
<b>Revision Number</b>	1.03		Jul.20.2009

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## 1. Product and company identification

### **Celanese Ltd.**

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P.O. Box 819005  
Dallas, TX 75381-9005  
United States  
Phone: 972 443 4000  
Internet: [www.celanese.com](http://www.celanese.com)

### **Transportation emergency phone numbers:**

In USA, call 800 424 9300  
Outside USA, call 703 527 3887, collect calls accepted

## 2. Hazards identification

### **Emergency Overview**

#### **CAUTION!**

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

### **Product Description**

#### **Appearance**

<b>Form</b>	liquid
<b>Odor</b>	sweet
<b>Colour</b>	milky white

### **Potential health effects**

#### **Routes of exposure**

Skin, eyes, inhalation.

#### **Immediate effects**

<b>Skin</b>	Prolonged or repeated exposure may cause skin irritation
<b>Eyes</b>	may cause eye irritation
<b>Ingestion</b>	May cause gastrointestinal irritation.

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### 3. Composition/information on ingredients

### 4. First aid measures

#### General Information

Remove contaminated, soaked clothing immediately and dispose of safely.

#### Inhalation

Move to fresh air. If symptoms persist, call a physician.

#### Skin

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

#### Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

#### Ingestion

If swallowed, seek medical advice immediately and show this container or label. If conscious, drink plenty of water. Do not induce vomiting without medical advice.

### 5. Fire-fighting measures

#### **Suitable extinguishing media**

foam, dry powder, carbon dioxide (CO<sub>2</sub>), water spray

#### Extinguishing media which must not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

#### Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases

Under conditions giving incomplete combustion, hazardous gases produced may consist of

carbon monoxide

carbon dioxide (CO<sub>2</sub>)

Combustion gases of organic materials must in principle be graded as inhalation poisons

#### **Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

#### Environmental precautions

Dike and collect water used to fight fire

#### Other Information

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

### 6. Accidental release measures

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### 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

#### Advice on safe handling

Product may contain hazardous volatile ingredients which could accumulate in the unvented headspace of drums or containers. Open containers in ventilated area. Do not breathe vapor.

#### 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. To maintain product quality, do not store in heat or direct sunlight. Keep at temperatures between 5 °C and 35 °C (40 °F and 95 °F).

#### Incompatible products

No special restrictions on storage with other products

## 8. Exposure controls / personal protection

### OSHA Exposure Limits

### ACGIH Exposure Limits

No exposure limits established.

### 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 eyebath should be readily available.

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**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**

<b>Form</b>	liquid
<b>Colour</b>	milky white
<b>Odor</b>	sweet.
<b>Boiling Point</b>	100 °C (212°F)
<b>Bulk Density</b>	9 lbs/gal
<b>pH</b>	4.0 - 5.0
<b>Method</b>	ISO 976

<b>Viscosity</b>	<200 cPs
<b>Viscosity</b>	500 - 3000 mPa*s @ 25°C
<b>Method</b>	Brookfield Visc. RVT Sp. 4 / 20 r.p.m.
<b>Specific Gravity</b>	1.0804
<b>vapor pressure</b>	24 hPa @ 20°C
<b>Water solubility</b>	miscible

## 10. Stability and reactivity

**Stability**

Stable under recommended storage conditions

**Conditions to avoid**

Do not freeze

**Materials to avoid**

materials that react with water

**Hazardous reactions**

No hazards to be especially mentioned.

## 11. Toxicological information

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

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## 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:**

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.

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.

## 14. Transport information

**US Department of Transportation** Not regulated

**ICAO/IATA** not restricted

**IMDG** Not regulated

## 15. Regulatory Information

### **U.S. STATE REGULATIONS**

#### **California Proposition 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.

Acetaldehyde (75-07-0)  
Formaldehyde (50-00-0)

### **U.S. FEDERAL REGULATIONS**

#### **TSCA Inventory**

This product complies with U.S. Toxic Substance Control Act (TSCA).

# Material Safety Data Sheet



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## SARA 313 Chemicals

Contains no substances at or above the reporting threshold under Section 313.

## CANADIAN REGULATIONS

### WHMIS Classification:

Not a WHMIS controlled product.

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

## 16. Other information

### Prepared By

Product Stewardship Department  
Celanese

Health: 1    Flammability: 0                      Physical hazard: 0

For more information, consult the Technical Data Sheet ([www.celanese-emulsions.com](http://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 indicates, that no data meeting these requirements is available.

### Other Information:

Traces of residual monomers can be found in the product:

Vinyl acetate

Changes against the previous version are marked by \*\*\*

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