1. Product and company identification

Trade Name

Formaldehyde 37%/ Methanol 12-15%, solution

Manufacturer, importer, supplier

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

Identified uses
Chemical intermediate (including monomers)

2. Hazard Identification

GHS Classification

Hazards                                      Category
Flammable liquid                             Category 3
Acute oral toxicity                          Category 3
Acute dermal toxicity                       Category 3
Acute inhalation toxicity                   Category 3
Skin corrosion/irritation                   Category 1B
Skin sensitization                          Category 1
Germ cell mutagenicity                      Category 2
Carcinogenicity                             Category 1B
Specific target organ systemic toxicity (single exposure) Category 1
Acute aquatic toxicity                      Category 2

Label elements

Signal Word: Danger
Safety Data Sheet

Product name: Formaldehyde 37% / Methanol 12-15%, solution
MSDS number: 80046
Revision Number: 0.01

Hazard Statements
- Flammable liquid and vapor
- Toxic if swallowed
- Toxic in contact with skin
- Toxic if inhaled
- Causes severe skin burns and eye damage
- May cause an allergic skin reaction
- Suspected of causing genetic defects
- May cause cancer
- Causes damage to organs
- Toxic to aquatic life

Precautionary statements
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- In case of fire:
  - Use foam, dry chemical, carbon dioxide (CO2) to extinguish.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Do not eat, drink or smoke when using this product.
- Wear protective gloves/protective clothing/eye protection/face protection
- Wash face, hands and any exposed skin thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Call a POISON CENTER or doctor if you feel unwell.
- Wash contaminated clothing before reuse.
- If skin irritation or rash occurs: Get medical advice/attention
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- Immediately call a POISON CENTER or doctor.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Immediately call a POISON CENTER or doctor.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF exposed or concerned: Get medical advice/attention.
- Store locked up.
- Store in a well-ventilated place. Keep cool.
- Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No</th>
<th>Percent %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde</td>
<td>50-00-0</td>
<td>37</td>
</tr>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>12-15</td>
</tr>
</tbody>
</table>

Revision Number: 0.01
Issuing date: Jun.23.2016
Revision Date: Jun.10.2015

NAGH/EN
## 4. First aid measures

### General Information
Remove contaminated, soaked clothing immediately and dispose of safely.

### Skin
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention. Destroy contaminated shoes.

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

### Inhalation
Move to fresh air. Call a physician immediately.

### Ingestion
Call a physician immediately. Do not induce vomiting without medical advice. Risk of product entering the lungs on vomiting after ingestion.

## 5. Fire-fighting measures

### NFPA:
- **Health:** 3
- **Flammability:** 2
- **Instability:** 1

### Suitable extinguishing media
Foam, Dry chemical, Carbon dioxide (CO2), Aqueous film forming foam

### 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 (CO2)

### Special protective equipment for fire-fighters
Self-contained breathing apparatus (EN 133).

### Environmental precautions
Dike and collect water used to fight fire.

### Other Information
Cool containers / tanks with water spray.

## 6. Accidental release measures

### Personal precautions
Do not breathe vapors, aerosols. Do not get in eyes, on skin, or on clothing. Keep away from heat and sources of ignition. Provide adequate ventilation.
Isolation
Keep unnecessary people away; isolate hazard area and deny entry.

Environmental precautions
Prevent further leakage or spillage. Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up
Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Dispose of in accordance with local regulations. Contaminated equipment (brushes, rags) must be cleaned immediately with water. Remove all sources of ignition. Keep people away from and upwind of spill/leak.

Authority Notification
Within the United States, call the National Response Center (800-424-8802) and appropriate state and local authorities if the quantity released over 24 hours is equal to or greater than the reportable quantity listed below:

276 lb/125kg

7. Handling and storage

Advice on safe handling
Provide sufficient air exchange and/or exhaust in work rooms. Handle in accordance with good industrial hygiene and safety practice. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not breathe vapours/dust. Always open containers slowly to allow any excess pressure to vent. Decontaminate soiled clothing thoroughly before re-use. Destroy contaminated leather clothing.

Protection - fire and explosion:
Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge. Ground and bond containers when transferring material. In case of fire, emergency cooling with water spray should be available.

Technical measures/Storage conditions
Keep tightly closed in a dry, cool and well-ventilated place. Handle an open container with care. Take measures to prevent the build up of electrostatic charge.

Material storage
Store locked up.

Incompatible products
Keep away from: Acids, Bases, amines, oxygen, oxidizing agents, reducing agents

8. Exposure controls / personal protection

OSHA Exposure Limits

<table>
<thead>
<tr>
<th>Components</th>
<th>TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde</td>
<td>0.75 PPM</td>
</tr>
<tr>
<td>Methanol</td>
<td>200 PPM</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde</td>
<td>2 PPM</td>
</tr>
<tr>
<td>Methanol</td>
<td>250 PPM</td>
</tr>
</tbody>
</table>
### ACGIH Exposure Limits

<table>
<thead>
<tr>
<th>Components</th>
<th>TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>200 PPM</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>250 PPM</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>Ceiling Limit Value:</th>
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<tr>
<td>Formaldehyde</td>
<td>0.3 PPM</td>
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</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>2005 NIOSH IDLH</th>
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</thead>
<tbody>
<tr>
<td>Formaldehyde</td>
<td>20 ppm</td>
</tr>
<tr>
<td>Methanol</td>
<td>25,000 PPM</td>
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</table>

### Mexico National Exposure Limits

<table>
<thead>
<tr>
<th>Components</th>
<th>LMPE - PPT</th>
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</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>260 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>310 mg/m³</td>
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</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>Mexican Carcinogen Category</th>
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<tbody>
<tr>
<td>Formaldehyde</td>
<td>A2</td>
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</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>Mexican Ceiling Exposure Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formaldehyde</td>
<td>3 mg/m³</td>
</tr>
</tbody>
</table>

### Exposure controls

#### Engineering measures
General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

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

#### General advice
Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Remove and wash contaminated clothing before re-use.
Respiratory protection
For formaldehyde concentrations > 1 and < 10 times the occupational exposure level: Use air-purifying respirator with full facepiece fitted with either cartridge(s) or canister specifically approved for protection against formaldehyde, or a full facepiece powered air-purifying respirator fitted with either cartridge(s) or canister specifically approved for protection against formaldehyde. The air purifying element must have an end of service life indicator, or a documented change out schedule must be established. Otherwise, use supplied air.

For concentrations more than 10 times the occupational exposure level and less than the lower of either 100 times the occupational exposure level or the IDLH: Use Type C full facepiece supplied-air respirator operated in positive-pressure or continuous-flow mode.

For concentrations > 100 times the occupational exposure level or greater than the IDLH level or unknown concentrations (such as in emergencies): Use self-contained breathing apparatus with full facepiece in positive-pressure mode or Type C positive-pressure full facepiece supplied-air respirator with an auxiliary positive-pressure self-contained breathing apparatus escape system.

For escape: Use positive-pressure self-contained breathing apparatus with full facepiece or full facepiece mask with chin style or front or back mounted type industrial size canister specifically approved for protection against formaldehyde.

Skin protection:
Wear impervious clothing and gloves to prevent contact. Butyl rubber is recommended. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

Eye/face protection:
In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face..

Comments:
Celanese has decided not to adopt the ACGIH Ceiling value for Formaldehyde based on a scientific evaluation of all the available data.
Celanese has adopted the ACGIH TLV for methanol.

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Form</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>colourless</td>
</tr>
<tr>
<td>Odor</td>
<td>pungent</td>
</tr>
<tr>
<td>Flash point</td>
<td>56°C(132.8°F)</td>
</tr>
<tr>
<td>Method</td>
<td>closed cup</td>
</tr>
<tr>
<td>Boiling point/range</td>
<td>~ 96°C @ 1013 hPa(calculated)</td>
</tr>
<tr>
<td>Density</td>
<td>~ 1.05 g/ml @ 61°C</td>
</tr>
<tr>
<td>pH</td>
<td>2.7 - 2.9; 1% @ 25°C</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>203 - 208 hPa @ 60°C calculated</td>
</tr>
<tr>
<td>Vapor density</td>
<td>0.83 - 0.85 (Air=1)</td>
</tr>
<tr>
<td>Water solubility</td>
<td>miscible</td>
</tr>
</tbody>
</table>
10. Stability and reactivity

Chemical stability
Stable if protected from heat and exposure to air.

Conditions to avoid
Avoid any source of ignition Avoid contact with heat, sparks, open flame, and static discharge.

Incompatible Materials
Keep away from:
oxygen oxidizing agents reducing agents Acids Bases

Hazardous Combustion or Decomposition Products:
Toxic emissions may be released in a fire situation., Thermal decomposition products may include formaldehyde vapors and oxides of carbon.

Possibility of hazardous reactions
Polymerization can occur, Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers.

11. Toxicological information

Potential health effects

Routes of exposure Skin, eyes, inhalation, ingestion.

Immediate effects

Skin Causes skin burns. Harmful if absorbed through skin. May cause allergic skin reaction. Symptoms of overexposure include: Central nervous system depression with headache, stupor, uncoordinated or strange behavior or unconsciousness. Redness or discoloration, swelling, itching, burning or blistering of skin. Drying, cracking or inflammation of skin. Prolonged and /or repeated skin contact with methanol-soaked material has produced toxic effects including vision effects and death.

Eyes Exposure to vapors and liquid Causes severe eye burns, damage irreversible. Symptoms of exposure may include: Eye irritation, burning sensation, pain, watering, and/or change of vision. Eye injury which may persist for several days. Loss of vision.

Inhalation Harmful if inhaled. Causes respiratory tract burns. May cause allergic respiratory reaction. Symptoms of exposure may include: Central nervous system depression with nausea, dizziness, headache, stupor, uncoordinated or strange behavior or unconsciousness. Nasal discharge, hoarseness, coughing, chest pain and breathing difficulty. Accumulation of fluid in the lungs (pulmonary edema); symptoms can be delayed for several hours.
Ingestion

Causes digestive tract burns. May be fatal if swallowed. Symptoms of exposure may include: Central nervous system depression with nausea, dizziness, headache, stupor, uncoordinated or strange behavior, or unconsciousness. Severe damage to the mouth, throat esophagus and/or stomach. A small amount of Methanol (usually two or more ounces) can cause mental sluggishness, nausea and vomiting leading to severe illness, and may produce adverse effects on vision with possible blindness or death if treatment is not received.

Medical conditions which may be aggravated by exposure:

Significant exposure to this chemical may adversely affect people with acute or chronic disease of the:

- Skin
- Eyes
- Central nervous system
- Digestive tract
- Respiratory Tract

May cause asthmatic response in persons with asthma, who are particularly sensitive to respiratory irritants.

Formaldehyde

**Acute oral toxicity**

LD50: 460 mg/kg

**Acute dermal toxicity**

Data waiving: formaldehyde has corrosive properties.

**Acute inhalation toxicity**

LC50 (30 min): 1000 mg/m³

**Method**

OECD 403

**Skin corrosion/irritation**

Species: rabbit

Method: OECD 404

**Skin Sensitization**

Species: mouse female

Method: OECD 429

**Serious eye damage/eye irritation**

Species: rabbit eye

Method: OECD 405

Species: rats

**Carcinogenic Effects**

Species: rats

Study: oral (drinking water) lifetime study

NOAEL: 82 mg/kg

**in vitro Mutagenicity**

Ames Test: positive - with and without metabolic activation - Method: OECD 471

**in vivo Mutagenicity**

Formaldehyde is a direct acting locally effective mutagen, with genotoxic effects limited to those cells in direct contact with formaldehyde (OECD SIDS). Did not cause chromosomal damage in rat bone marrow

Method: EU B.12

**Reproductive toxicity**

No toxicity to reproduction

**Developmental effects**

No adverse developmental effects
### 12. Ecological Information

**Formaldehyde**

**Acute fish toxicity**
- Species: *Danio rerio* (Zebra fish)
- Method: OECD 203
- LC50: 6.7 mg/l (96h)

**Acute daphnia toxicity**
- EC50: 5.8 g/l (48h)

### Methanol

<table>
<thead>
<tr>
<th>Routes of exposure</th>
<th>oral gavage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species</td>
<td>mouse</td>
</tr>
<tr>
<td><strong>Developmental effects</strong></td>
<td></td>
</tr>
<tr>
<td>Routes of exposure</td>
<td>Inhalation</td>
</tr>
<tr>
<td>Species</td>
<td>rat</td>
</tr>
<tr>
<td><strong>Repeated Exposure</strong></td>
<td>Repeated Exposure</td>
</tr>
<tr>
<td>Routes of exposure</td>
<td>oral drinking water</td>
</tr>
<tr>
<td>Species</td>
<td>rats</td>
</tr>
<tr>
<td><strong>Method</strong></td>
<td>OECD 453</td>
</tr>
<tr>
<td></td>
<td>NOAEL: 15 mg/kg bw/day</td>
</tr>
</tbody>
</table>

### Methanol

<table>
<thead>
<tr>
<th>Species</th>
<th>guinea pig</th>
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</thead>
<tbody>
<tr>
<td><strong>Skin Sensitization</strong></td>
<td></td>
</tr>
<tr>
<td>Species</td>
<td>rabbit eye</td>
</tr>
<tr>
<td><strong>Carcinogenic effects</strong></td>
<td></td>
</tr>
<tr>
<td>Species</td>
<td>rats</td>
</tr>
<tr>
<td>Study</td>
<td>inhalation lifetime study</td>
</tr>
<tr>
<td><strong>Carcinogenic Effects</strong></td>
<td></td>
</tr>
<tr>
<td>Species</td>
<td>mice</td>
</tr>
<tr>
<td>Study</td>
<td>inhalation lifetime study</td>
</tr>
</tbody>
</table>

#### in vitro Mutagenicity

- Ames Test: negative - with and without metabolic activation - Method: OECD 471 Mouse lymphoma cell gene-mutation:

#### in vivo Mutagenicity

- Positive and negative results

#### Reproductive toxicity

- Some indication of reproductive toxicity in animals at non-physiological levels

#### Developmental effects

- Some indication of developmental toxicity in animals at non-physiological levels

### 13. Additional Information
# 12. Ecological Information

<table>
<thead>
<tr>
<th>Bioconcentration factor (BCF)</th>
<th>Bioaccumulation</th>
<th>Other potential hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species: Daphnia pulex</td>
<td>Bioaccumulative potential - low</td>
<td>The substance does not meet the criteria for PBT / vPvB according to REACH, Annex XIII</td>
</tr>
<tr>
<td>Method OECD 202</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Species: Desmodesmus subspicatus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Method OECD 201</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Species: Scenedesmus quadricauda</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Method OECD 201</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Biodegradation**

- in fresh water
- Readily biodegradable
- OECD 301 C

**Methanol**

<table>
<thead>
<tr>
<th>Acute fish toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species: <em>Pimephales promelas</em> (Fathead minnow)</td>
</tr>
<tr>
<td>Method Flow-through</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chronic fish toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species: <em>Lepomis macrochirus</em> (Bluegill sunfish)</td>
</tr>
<tr>
<td>Method Flow-through</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acute daphnia toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species: <em>Daphnia magna</em></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Toxicity to aquatic plants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species: <em>Selenastrum capricornutum</em> (green algae)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Biodegradation</th>
</tr>
</thead>
<tbody>
<tr>
<td>48 % (5d)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Bioconcentration factor (BCF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioconcentration factor (BCF)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Bioaccumulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioaccumulative potential - low</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Other potential hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>The substance does not meet the criteria for PBT / vPvB according to REACH, Annex XIII</td>
</tr>
</tbody>
</table>
13. Disposal considerations

Disposal considerations
Dispense of spilled material in accordance with state and local regulations for hazardous waste. Recommended methods are incineration or biological treatment at a federally or state-permitted disposal facility. 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.

EPA Hazardous Waste Code(s): U122

14. Transport information

US Department of Transportation

UN/NA Number: UN 1198
Proper Shipping Name: Formaldehyde, solutions, flammable
Hazard class: 3
Subsidiary hazard: 8
Packing Group: III
Reportable Quantity (RQ): 276 lb/125kg

TDG

UN/NA Number: UN 1198
Proper Shipping Name: FORMALDEHYDE SOLUTION, FLAMMABLE
Class: 3
Subsidiary Risk: 8
Packing Group: III

Mexico Transport Information

UN-No.: UN 1198
Proper Shipping Name: Formaldehyde, solutions, flammable
Hazard Class: 3
Subsidiary Risk: 8
Packing Group: III
Emergency Response Guide: 132

ICAO/IATA

UN-No.: UN 1198
Proper Shipping Name: Formaldehyde solution, flammable
Hazard Inducer: (Formaldehyde, Methanol)
Hazard Class: 3
Subsidiary Risk: 8
Packing group: III
Safety Data Sheet

Product name: Formaldehyde 37% / Methanol 12-15%, solution
MSDS number: 80046
Revision Number: 0.01

IMDG
UN/ID No. UN 1198
Proper Shipping Name FORMALDEHYDE SOLUTION, FLAMMABLE
Hazard Class 3
Subsidiary Risk 8
Packing group III
EmS Code F-E, S-C

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):

Formaldehyde 50-00-0
Pennsylvania Listed
New York Listed
New Jersey Listed
Illinois Listed
Louisiana Listed
Massachusetts Listed
Rhode Island Listed

Methanol 67-56-1
Pennsylvania Listed
New York Listed
New Jersey Listed
Illinois Listed
Massachusetts Listed
Rhode Island Listed

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.

Formaldehyde (50-00-0)
Methanol (67-56-1)

Formaldehyde 50-00-0
Listed

U.S. FEDERAL REGULATIONS

TSCA Inventory:
We certify that all components are either on the TSCA inventory or qualify for an exemption.
OSHA FORMALDEHYDE STANDARD: This product is capable of emitting free formaldehyde and is covered by the OSHA Formaldehyde Standard, 29 CFR 1910.1048.

Environmental Regulations:

Formaldehyde 50-00-0
EPCRA Section 313 Listed
CERCLA Hazardous Substance Listed
Extremely Hazardous Substance Listed

Methanol 67-56-1
EPCRA Section 313 Listed
CERCLA Hazardous Substance Listed

SARA 311:
Acute health: Yes
Chronic health: Yes
Fire: Yes
Sudden release of pressure: No
Reactive: No

INTERNATIONAL REGULATIONS

International Inventories
Australia (AICS)
Canada (DSL)
China (IECSC)
Europe (EINECS)
Japan (ENCS)
Korea (KECI)
Philippines (PICCS)

16. Other information

Prepared By
Product Stewardship Department
Celanese

For more information, other material safety data sheets or technical data sheets please consult the Celanese homepage (www.celanese.com)
## Safety Data Sheet

<table>
<thead>
<tr>
<th>Product name</th>
<th>Formaldehyde 37% / Methanol 12-15%, solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSDS number</td>
<td>80046</td>
</tr>
<tr>
<td>Revision Number</td>
<td>0.01</td>
</tr>
<tr>
<td>Revision Date</td>
<td>Jun.10.2015</td>
</tr>
<tr>
<td>Issuing date</td>
<td>Jun.23.2016</td>
</tr>
</tbody>
</table>

### 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.

### Other Information:
Observe national and local legal requirements

Changes against the previous version are marked by ***

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