### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier
- **Product form**: Mixture
- **Product name**: Levesol
- **Product code**: 80574

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.3. Details of the supplier of the safety data sheet
- CHS Inc
- 5500 Cenex Drive
- Inver Grove Heights, MN 55077 US
- 1-651-355-6000
- www.chsinc.com

#### 1.4. Emergency telephone number
- **Emergency number**: 1-800-424-9300
  - ChemTrec (24hr)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture
- **GHS-US classification**: Not classified

#### 2.2. Label elements
- **GHS-US labelling**: No labelling applicable

#### 2.3. Other hazards
- No additional information available

#### 2.4. Unknown acute toxicity (GHS-US)
- Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance
- Not applicable

#### 3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>urea</td>
<td>(CAS No) 57-13-6</td>
<td>1 - 5</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures
- **First-aid measures general**: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- **First-aid measures after inhalation**: Allow breathing of fresh air. Allow the victim to rest.
- **First-aid measures after skin contact**: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- **First-aid measures after eye contact**: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- **First-aid measures after ingestion**: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed
- **Symptoms/injuries**: Not expected to present a significant hazard under anticipated conditions of normal use.

#### 4.3. Indication of any immediate medical attention and special treatment needed
- No additional information available
SECTION 5: Firefighting measures

5.1. Extinguishing media
Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture
No additional information available

5.3. Advice for firefighters
Firefighting instructions: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

6.2. Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections
See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep only in original container in a cool well ventilated area. Keep container closed when not in use.
Incompatible products: Strong bases. Strong acids.
Incompatible materials: Sources of ignition. Direct sunlight.
Storage temperature: 25 (5 - 42) °C

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Levesol</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>urea (57-13-6)</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

8.2. Exposure controls
Personal protective equipment: Avoid all unnecessary exposure.
Hand protection: Wear protective gloves.
Levesol
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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Eye protection | Chemical goggles or safety glasses. |
| Respiratory protection | Wear appropriate mask. |
| Other information | Do not eat, drink or smoke during use. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Colour: brown

Odour: Characteristic odour

Odour threshold: No data available

\( pH \): 9.5 - 10.5

Melting point: No data available

Freezing point: \( \leq 0 \) °C

Boiling point: \( \geq 100 \) °C

Flash point: None

Relative evaporation rate (butylacetate=1): No data available

Flammability (solid, gas): No data available

Explosive limits: No data available

Explosive properties: No data available

Oxidising properties: No data available

Vapour pressure: No data available

Relative density: No data available

Relative vapour density at 20 °C: No data available

Density: 1.082 g/ml

Solubility: Soluble in water. Water: Solubility in water of component(s) of the mixture:
- urea: 100 g/100ml

Log Pow: No data available

Log Kow: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: \( \geq 360 \) cP

Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

9.2. Other information

VOC content: \( \leq 10 \) g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

# SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

### Acute toxicity

**Acute toxicity**: Not classified

<table>
<thead>
<tr>
<th>Compound</th>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>urea (57-13-6)</td>
<td>LD50 oral rat</td>
<td>8471 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; 14300 mg/kg bodyweight; Rat; Experimental value)</td>
</tr>
<tr>
<td></td>
<td>LD50 dermal rat</td>
<td>&gt; 3200 mg/kg (Rat; Literature study)</td>
</tr>
<tr>
<td></td>
<td>LD50 dermal rabbit</td>
<td>&gt; 21000 mg/kg (Rabbit; Literature study)</td>
</tr>
<tr>
<td></td>
<td>ATE US (oral)</td>
<td>8471.000 mg/kg bodyweight</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**: Not classified

- pH: 9.5 - 10.5

**Serious eye damage/irritation**: Not classified

- pH: 9.5 - 10.5

**Respiratory or skin sensitisation**: Not classified

**Germ cell mutagenicity**: Not classified

**Carcinogenicity**: Not classified

**Reproductive toxicity**: Not classified

**Specific target organ toxicity (single exposure)**: Not classified

**Specific target organ toxicity (repeated exposure)**: Not classified

**Aspiration hazard**: Not classified

**Potential adverse human health effects and symptoms**: Based on available data, the classification criteria are not met.

# SECTION 12: Ecological information

## 12.1. Toxicity

**urea (57-13-6)**

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>&gt; 6810 mg/l (LC50; 96 h; Leuciscus idus; Static system)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>&gt; 10000 mg/l (EC50; 48 h; Daphnia magna)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>&gt; 10000 mg/l (EC0; 168 h; Scenedesmus quadricauda; Static system; Fresh water)</td>
</tr>
</tbody>
</table>

## 12.2. Persistence and degradability

### Levesol

Persistence and degradability: Not established.

### urea (57-13-6)


| ThOD | 0.27 g O$_2$/g substance |

## 12.3. Bioaccumulative potential

### Levesol

Bioaccumulative potential: Not established.

### urea (57-13-6)

| BCF fish 1 | 1 (BCF; 72 h; Brachydanio rerio) |
| BCF other aquatic organisms 1 | 11700 (BCF) |
| Log Pow | < -1.73 (Experimental value; EU Method A.8: Partition Coefficient) |

Bioaccumulative potential: Bioaccumulation: not applicable.

## 12.4. Mobility in soil

### urea (57-13-6)

| Log Koc | Koc,0.037-0.064; Experimental value |

## 12.5. Other adverse effects
**Effect on the global warming**  
No known ecological damage caused by this product.

Other information  
Avoid release to the environment.

**SECTION 13: Disposal considerations**

13.1. Waste treatment methods

| Waste disposal recommendations | Dispose in a safe manner in accordance with local/national regulations. |
| Ecology - waste materials | Avoid release to the environment. |

**SECTION 14: Transport information**

**Department of Transportation (DOT)**
In accordance with DOT
Not regulated for transport

**Additional information**
Other information  
No supplementary information available.

**ADR**
No additional information available

**Transport by sea**
No additional information available

**Air transport**
No additional information available

**SECTION 15: Regulatory information**

15.1. US Federal regulations

| urea (57-13-6) | Listed on the United States TSCA (Toxic Substances Control Act) inventory |

15.2. International regulations

**CANADA**
No additional information available

**EU-Regulations**
No additional information available

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**
No additional information available

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**
Not classified

**National regulations**
No additional information available

15.3. US State regulations
No additional information available

**SECTION 16: Other information**

Revision date  
12/05/2017

Other information  
None.
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<table>
<thead>
<tr>
<th>NFPA health hazard</th>
<th>0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFPA fire hazard</td>
<td>0 - Materials that will not burn.</td>
</tr>
<tr>
<td>NFPA reactivity</td>
<td>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</td>
</tr>
<tr>
<td>NFPA specific hazard</td>
<td>None</td>
</tr>
</tbody>
</table>

HMIS III Rating

- Health: 0 Minimal Hazard - No significant risk to health
- Flammability: 0 Minimal Hazard - Materials that will not burn
- Physical: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
- Personal Protection: B
  - B - Safety glasses, Gloves

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.