



# INCOMPLETE LIVER LYSIS SOLUTION 1

## Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of issue: 02/07/2018

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Trade name : INCOMPLETE LIVER LYSIS SOLUTION 1

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

Use of the substance/mixture : Product Use: This product is for laboratory research use only and is not intended for human or animal diagnostics, therapeutic, or other clinical uses.  
NOTE: This product is supplied in a kit with more than one material; therefore please refer to the SDS for each component for hazard information.

#### 1.3. Details of the supplier of the safety data sheet

Litron Laboratories  
3500 Winton Place  
Rochester, NY 14623  
Phone: 585-442-0930 / 877-4-LITRON

#### 1.4. Emergency telephone number

Emergency number : 585-442-0930

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Eye Irrit. 2A H319 - Causes serious eye irritation  
Full text of H-statements: see section 16

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning  
Hazard statements (GHS-US) : H319 - Causes serious eye irritation  
Precautionary statements (GHS-US) : P264 - Wash hands thoroughly after handling  
P280 - Wear eye protection, protective gloves  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337+P313 - If eye irritation persists: get medical advice/attention

#### 2.3. Other hazards

other hazards which do not result in classification : May cause slight irritation to the skin.

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

| Name  | Product identifier | %       | GHS-US classification  |
|---|--------------------|---------|--|
| Polyethylene glycol 4-(tert-octylphenyl) ether, liquids | (CAS No) 9002-93-1 | 0.5 - 2 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318 |

Full text of H-statements: see section 16

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- |                                       |   |
|---------------------------------------|---|
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Seek medical attention if ill effect or irritation develops.   |
| First-aid measures after skin contact | : Wash off immediately with soap and plenty of water. If irritation persists, consult a doctor.   |
| First-aid measures after eye contact  | : Rinse immediately and plentifully with water, also under the eyelids, for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical advice. |
| First-aid measures after ingestion    | : Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical advice/attention.   |

#### 4.2. Most important symptoms and effects, both acute and delayed

- |                                      |  |
|--------------------------------------|--|
| Symptoms/injuries after inhalation   | : Inhalation of mist or aerosol may cause irritation to nose and throat. |
| Symptoms/injuries after skin contact | : May cause slight temporary irritation.                                 |
| Symptoms/injuries after eye contact  | : Causes serious eye irritation.   |
| Symptoms/injuries after ingestion    | : May cause gastric irritation.  |

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- |                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use water jet.                          |

#### 5.2. Special hazards arising from the substance or mixture

- |                  |   |
|------------------|---|
| Fire hazard      | : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. |
| Explosion hazard | : No direct explosion hazard.   |
| Reactivity       | : The product is non-reactive under normal conditions of use, storage and transport.              |

#### 5.3. Advice for firefighters

- |                                       |  |
|---------------------------------------|--|
| Protective equipment for firefighters | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|---------------------------------------|--|

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- |                  |   |
|------------------|---|
| General measures | : Limit access only to the necessary cleaning personnel. Avoid any direct contact with the product. |
|------------------|---|

##### 6.1.1. For non-emergency personnel

- |                      |  |
|----------------------|--|
| Protective equipment | : Wear suitable protective clothing. Refer to section 8. |
| Emergency procedures | : Ventilate spillage area.                               |

##### 6.1.2. For emergency responders

- |                      |   |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

- |                         |   |
|-------------------------|---|
| For containment         | : Stop leak if safe to do so. Contain and/or absorb spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container.  |
| Methods for cleaning up | : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect all waste in suitable and labelled containers and dispose according to local legislation. |

#### 6.4. Reference to other sections

For further information refer to section 8: Exposure-controls/personal protection. For disposal of residues refer to section 13: Disposal considerations".

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- |                               |  |
|-------------------------------|--|
| Precautions for safe handling | : Ensure good ventilation of the work station. Wear personal protective equipment. |
|-------------------------------|--|

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## Safety Data Sheet

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|                  |  |
|------------------|--|
| Hygiene measures | : Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse. |
|------------------|--|

### 7.2. Conditions for safe storage, including any incompatibilities

|                        |   |
|------------------------|---|
| Storage conditions     | : Store in a well-ventilated place. Keep cool. Keep container tightly closed. |
| Incompatible materials | : None known.   |
| Storage temperature    | : 2 - 8 °C  |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

|                                   |  |
|-----------------------------------|--|
| Appropriate engineering controls  | : Ensure good ventilation of the work station.   |
| Materials for protective clothing | : Lab coat.  |
| Hand protection                   | : Protective gloves made of rubber or PVC.   |
| Eye protection                    | : Safety glasses. Use splash goggles when eye contact due to splashing is possible.                                    |
| Skin and body protection          | : Wear suitable protective clothing.   |
| Respiratory protection            | : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. |
| Environmental exposure controls   | : Avoid release to the environment.  |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                     |
|---|---------------------|
| Physical state                              | : Liquid            |
| Appearance                                  | : Clear.            |
| Color                                       | : Colorless         |
| Odour                                       | : Odourless.        |
| Odour threshold                             | : No data available |
| pH  | : 7                 |
| Melting point                               | : No data available |
| Freezing point                              | : No data available |
| Boiling point                               | : No data available |
| Flash point                                 | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas)                   | : No data available |
| Explosive limits                            | : No data available |
| Explosive properties                        | : No data available |
| Oxidizing properties                        | : No data available |
| Vapor pressure                              | : No data available |
| Relative density                            | : No data available |
| Relative vapor density at 20 °C             | : No data available |
| Solubility                                  | : Water: Soluble    |
| Log Pow                                     | : No data available |
| Auto-ignition temperature                   | : No data available |
| Decomposition temperature                   | : No data available |
| Viscosity                                   | : No data available |
| Viscosity, kinematic                        | : No data available |
| Viscosity, dynamic                          | : No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

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### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerisation does not occur.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure : Skin and eye contact; Ingestion; Inhalation

Acute toxicity : Not classified  
(Based on available data, the classification criteria are not met)

#### Polyethylene glycol 4-(tert-octylphenyl) ether, liquids (9002-93-1)

|                    |                          |
|--------------------|--------------------------|
| LD50 dermal rabbit | 8000 mg/kg               |
| ATE US (oral)      | 500.000 mg/kg bodyweight |

Skin corrosion/irritation : Not classified  
(Based on available data, the classification criteria are not met)  
pH: 7

Serious eye damage/irritation : Causes serious eye irritation.  
pH: 7

Respiratory or skin sensitization : Not classified  
(Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified  
(Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified  
(Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified  
(Based on available data, the classification criteria are not met)

Specific target organ toxicity (single exposure) : Not classified  
(Based on available data, the classification criteria are not met)

Specific target organ toxicity (repeated exposure) : Not classified  
(Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified  
(Based on available data, the classification criteria are not met)

Symptoms/injuries after inhalation : Inhalation of mist or aerosol may cause irritation to nose and throat.

Symptoms/injuries after skin contact : May cause slight temporary irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : May cause gastric irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : This material has not been tested for environmental effects.

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

#### Polyethylene glycol 4-(tert-octylphenyl) ether, liquids (9002-93-1)

|         |           |
|---------|-----------|
| Log Pow | 1.3 - 2.4 |
|---------|-----------|

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on the global warming : No additional information available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

#### TDG

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

No additional information available

#### 15.2. International regulations

##### CANADA

No additional information available

##### EU-Regulations

No additional information available

##### National regulations

#### Polyethylene glycol 4-(tert-octylphenyl) ether, liquids (9002-93-1)

##### OSHA-HCS REGULATORY STATUS:

This material is considered hazardous according to the criteria of the US OSHA Hazard Communication Standard (29 CFR 1910.1200).  
Irritant.

#### 15.3. US State regulations

No additional information available.

Date of issue: 02/07/2018

### SECTION 16: Other information

Full text of H-statements:

|                     |  |
|---------------------|--|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4              |
| Eye Dam. 1          | Serious eye damage/eye irritation, Category 1  |
| Eye Irrit. 2A       | Serious eye damage/eye irritation, Category 2A |
| Skin Irrit. 2       | Skin corrosion/irritation Category 2           |
| H302                | Harmful if swallowed                           |
| H315                | Causes skin irritation                         |
| H318                | Causes serious eye damage                      |
| H319                | Causes serious eye irritation                  |

SDS US (GHS HazCom 2012)

*The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all-inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since Litron Laboratories cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.*