

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixtures  
Product name : Murexide, 0.15% in Ethylene Glycol  
Product code : LC17500

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : For laboratory and manufacturing use only.  
Recommended use : Laboratory chemicals  
Restrictions on use : Not for food, drug or household use

#### 1.3. Supplier

LabChem Inc  
Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court  
Zelienople, PA 16063 - USA  
T 412-826-5230 - F 724-473-0647  
[info@labchem.com](mailto:info@labchem.com) - [www.labchem.com](http://www.labchem.com)

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

### SECTION 2: Hazard(s) identification

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

##### GHS-US classification

Acute toxicity (oral) H302 Harmful if swallowed  
Category 4

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning  
Hazard statements (GHS-US) : H302 - Harmful if swallowed  
Precautionary statements (GHS-US) : P264 - Wash exposed skin thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P501 - Dispose of contents/container to comply with local, state and federal regulations  
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell

#### 2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : None.

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

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name            | Product identifier  | %     | GHS-US classification     |
|-----------------|---------------------|-------|---------------------------|
| Ethylene Glycol | (CAS-No.) 107-21-1  | 99.85 | Acute Tox. 4 (Oral), H302 |
| Murexide, ACS   | (CAS-No.) 3051-09-0 | 0.15  | Not classified            |

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Full text of hazard classes and 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 victim to breathe 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 persists.                               |
| First-aid measures after ingestion    | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or doctor/physician if you feel unwell. |

#### 4.2. Most important symptoms and effects (acute and delayed)

- |                                  |                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------|
| Symptoms/effects after ingestion | : Swallowing a small quantity of this material will result in serious health hazard. |
|----------------------------------|--------------------------------------------------------------------------------------|

#### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- |                                |                                                        |
|--------------------------------|--------------------------------------------------------|
| Suitable extinguishing media   | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.                     |

#### 5.2. Specific hazards arising from the chemical

No additional information available

#### 5.3. Special protective equipment and precautions for fire-fighters

- |                                |                                                                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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

- |                      |                                   |
|----------------------|-----------------------------------|
| Protective equipment | : Safety glasses. Gloves.         |
| 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 vapor. |
| Hygiene measures              | : Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after handling.                                                                                              |

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

- |                    |                                          |
|--------------------|------------------------------------------|
| Storage conditions | : Keep container closed when not in use. |
|--------------------|------------------------------------------|

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Incompatible products : Strong oxidizers.  
Incompatible materials : Sources of ignition. Direct sunlight.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Murexide, ACS (3051-09-0)

Not applicable

##### Ethylene Glycol (107-21-1)

|       |                                    |                       |
|-------|------------------------------------|-----------------------|
| ACGIH | ACGIH Ceiling (mg/m <sup>3</sup> ) | 100 mg/m <sup>3</sup> |
|-------|------------------------------------|-----------------------|

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.

#### 8.3. Individual protection measures/Personal protective equipment

##### Personal protective equipment:

Gloves. Safety glasses.



##### Hand protection:

Wear protective gloves

##### Eye protection:

Chemical goggles or safety glasses

##### Respiratory protection:

Respiratory protection not required in normal conditions

##### 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            |
| Color                                       | : red Purple        |
| Odor                                        | : mild              |
| Odor threshold                              | : No data available |
| pH                                          | : 6.5               |
| Melting point                               | : -13.3 °C          |
| Freezing point                              | : No data available |
| Boiling point                               | : 197.8 °C          |
| Flash point                                 | : 116.1 °C          |
| Relative evaporation rate (butyl acetate=1) | : 0.01              |
| Flammability (solid, gas)                   | : Non flammable.    |
| Vapor pressure                              | : 0.008 kPa         |
| Relative vapor density at 20 °C             | : 2.1 Air = 1       |
| Relative density                            | : No data available |
| Specific gravity / density                  | : 1.12 g/ml         |
| Molecular mass                              | : 62.07 g/mol       |

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|                           |                                           |
|---------------------------|-------------------------------------------|
| Solubility                | : Soluble in water.<br>Water: 100 g/100ml |
| Log Pow                   | : No data available                       |
| Auto-ignition temperature | : No data available                       |
| Decomposition temperature | : No data available                       |
| Viscosity, kinematic      | : 18.7 cSt 20°C                           |
| Viscosity, dynamic        | : No data available                       |
| Explosion limits          | : No data available                       |
| Explosive properties      | : No data available                       |
| Oxidizing properties      | : No data available                       |

### 9.2. Other information

|             |                    |
|-------------|--------------------|
| VOC content | : < 1 % ASTM D2369 |
|-------------|--------------------|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 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 oxidizers.

### 10.6. Hazardous decomposition products

Nitrogen oxides. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                           |                               |
|---------------------------|-------------------------------|
| Likely routes of exposure | : Skin and eye contact        |
| Acute toxicity            | : Oral: Harmful if swallowed. |

| Murexide, 0.15% in Ethylene Glycol |                                |
|------------------------------------|--------------------------------|
| LD50 dermal rabbit                 | 10626 mg/kg                    |
| ATE US (oral)                      | 500.75112669 mg/kg body weight |
| ATE US (dermal)                    | 10626 mg/kg body weight        |

| Ethylene Glycol (107-21-1) |                         |
|----------------------------|-------------------------|
| LD50 dermal rabbit         | 10626 mg/kg             |
| ATE US (oral)              | 500 mg/kg body weight   |
| ATE US (dermal)            | 10626 mg/kg body weight |

|                                                    |                             |
|----------------------------------------------------|-----------------------------|
| Skin corrosion/irritation                          | : Not classified<br>pH: 6.5 |
| Serious eye damage/irritation                      | : Not classified<br>pH: 6.5 |
| Respiratory or skin sensitization                  | : 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            |

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|                                                     |                                                                                           |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------|
| Aspiration hazard                                   | : Not classified                                                                          |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. Harmful if swallowed. |
| Symptoms/effects after ingestion                    | : Swallowing a small quantity of this material will result in serious health hazard.      |

### SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

| Murexide, 0.15% in Ethylene Glycol |                  |
|------------------------------------|------------------|
| Persistence and degradability      | Not established. |
| Murexide, ACS (3051-09-0)          |                  |
| Persistence and degradability      | Not established. |
| Ethylene Glycol (107-21-1)         |                  |
| Persistence and degradability      | Not established. |

#### 12.3. Bioaccumulative potential

| Murexide, 0.15% in Ethylene Glycol |                  |
|------------------------------------|------------------|
| Bioaccumulative potential          | Not established. |
| Murexide, ACS (3051-09-0)          |                  |
| Bioaccumulative potential          | Not established. |
| Ethylene Glycol (107-21-1)         |                  |
| Bioaccumulative potential          | Not established. |

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

|                              |                                       |
|------------------------------|---------------------------------------|
| Effect on the global warming | : No known effects from this product. |
| GWPmix comment               | : No known effects from this product. |
| Other information            | : Avoid release to the environment.   |

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

|                                |                                                                                                                                                              |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. |
| Ecology - waste materials      | : Avoid release to the environment.                                                                                                                          |

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT  
Not regulated

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

| Murexide, 0.15% in Ethylene Glycol  |                                                                    |
|-------------------------------------|--------------------------------------------------------------------|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard<br>Delayed (chronic) health hazard |

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

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|                 |                  |        |
|-----------------|------------------|--------|
| Ethylene Glycol | CAS-No. 107-21-1 | 99.85% |
|-----------------|------------------|--------|

| Ethylene Glycol (107-21-1)                                   |                                                                    |
|--------------------------------------------------------------|--------------------------------------------------------------------|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 5000 lb                                                            |
| SARA Section 311/312 Hazard Classes                          | Immediate (acute) health hazard<br>Delayed (chronic) health hazard |

### 15.2. International regulations

#### CANADA

| Murexide, ACS (3051-09-0)                             |  |
|-------------------------------------------------------|--|
| Listed on the Canadian DSL (Domestic Substances List) |  |
| Ethylene Glycol (107-21-1)                            |  |
| Listed on the Canadian DSL (Domestic Substances List) |  |

#### EU-Regulations

No additional information available

#### National regulations

| Murexide, ACS (3051-09-0)                                   |  |
|-------------------------------------------------------------|--|
| Not listed on the Canadian IDL (Ingredient Disclosure List) |  |
| Ethylene Glycol (107-21-1)                                  |  |
| Listed on the Canadian IDL (Ingredient Disclosure List)     |  |

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

Revision date : 01/09/2018  
Other information : None.

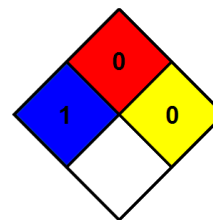
Full text of H-phrases: see section 16:

|      |                      |
|------|----------------------|
| H302 | Harmful if swallowed |
|------|----------------------|

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



#### Hazard Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible  
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

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