

# PHLOROGLUCINOL REAGENT SOLUTION

## MSDS

**CAS-No.: MSDS**



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## MATERIAL SAFETY DATA SHEET (MSDS)

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

#### 1.1. Product identifier

Product form : Mixture  
:  
Product code : B-02001

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

##### 1.2.2. Uses advised against

No additional information available

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

Bio-Chem Chemicals  
5455, Nicholson Road Science Market,  
Ambala Cantt. 133001 Haryana (India)  
+91-82952 41953  
[info@biofinechemical.com](mailto:info@biofinechemical.com) - [www.biofinechemical.com](http://www.biofinechemical.com)

#### 1.4. Emergency telephone number

Emergency number : +91 99921 51495 (10.00am - 06.30pm) (Office Hours)

### SECTION 2: Hazards identification

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

Classification according to Regulation (EC) No 1272/2008 [CLP]

Flammable liquids, H225  
Category 2  
Serious eye damage/eye irritation, Category 2 H319

Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

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### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02



GHS07

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapour.  
H319 - Causes serious eye irritation.

Precautionary statements (CLP) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
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.  
P370+P378 - In case of fire: Use media other than water to extinguish.  
P403+P235 - Store in a well-ventilated place. Keep cool.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name              | Product identifier                                                     | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]                 |
|-------------------|------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------|
| Ethanol           | (CAS-No.) 64-17-5<br>(EC-No.) 200-578-6<br>(EC Index-No.) 603-002-00-5 | 90 - 99 | Flam. Liq. 3, H226<br>Skin Corr. 1A, H314                                       |
| PHLOROGLUCINOL AR | (CAS-No.) 108-73-6                                                     | 1 - 5   | Eye Irrit. 2, H319<br>Skin Irrit. 2, H315<br>STOT SE 3, H335<br>STOT SE 2, H371 |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation :

Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

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|                                       |                                                                                                                                                                                |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures after skin contact | : Wash with plenty of water/.... Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Get medical advice/attention. |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.                           |
| First-aid measures after ingestion    | : Rinse mouth. Do not induce vomiting. Get medical advice/attention.                                                                                                           |

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

|                                    |                          |
|------------------------------------|--------------------------|
| Symptoms/effects after eye contact | : Causes eye 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   | : Carbon dioxide. Dry powder. Foam. Water spray. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

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

|                  |                                                    |
|------------------|----------------------------------------------------|
| Fire hazard      | : Extremely flammable liquid and vapour.           |
| Explosion hazard | : May form flammable/explosive vapour-air mixture. |

### 5.3. Advice for firefighters

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

|                  |                                                                                                           |
|------------------|-----------------------------------------------------------------------------------------------------------|
| General measures | : No open flames. No smoking. Remove ignition sources. Use special care to avoid static electric charges. |
|------------------|-----------------------------------------------------------------------------------------------------------|

#### 6.1.1. For non-emergency personnel

|                      |                                   |
|----------------------|-----------------------------------|
| Emergency procedures | : Evacuate unnecessary personnel. |
|----------------------|-----------------------------------|

#### 6.1.2. For emergency responders

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Protective equipment | : Use personal protective equipment as required. |
| Emergency procedures | : Ventilate area.                                |

### 6.2. Environmental precautions

Avoid release to the environment.

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

|                         |                                                                        |
|-------------------------|------------------------------------------------------------------------|
| Methods for cleaning up | : On land, sweep or shovel into suitable containers. Collect spillage. |
|-------------------------|------------------------------------------------------------------------|

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                               |                                                                                                                                                                             |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Avoid contact with skin and eyes. Do not breathe vapours. Keep away from sources of ignition - No smoking. Use only outdoors or in a well-ventilated area.                |
| Hygiene measures              | : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. |

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

|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| Storage conditions     | : Keep container tightly closed. Keep in fireproof place. |
| Incompatible materials | : Heat sources.                                           |

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### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

|                          |                                                                    |
|--------------------------|--------------------------------------------------------------------|
| Hand protection          | : Protective gloves                                                |
| Eye protection           | : Chemical goggles or safety glasses                               |
| Skin and body protection | : Wear suitable protective clothing                                |
| Respiratory protection   | : [In case of inadequate ventilation] wear respiratory protection. |

## SECTION 9: Physical and chemical properties

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

|                                            |                                   |
|--------------------------------------------|-----------------------------------|
| Physical state                             | : Liquid                          |
| Colour                                     | : Clear colorless to pale yellow. |
| Odour                                      | : No data available               |
| Odour threshold                            | : No data available               |
| pH                                         | : No data available               |
| Relative evaporation rate (butylacetate=1) | : No data available               |
| Melting point                              | : No data available               |
| Freezing point                             | : No data available               |
| Boiling point                              | : No data available               |
| Flash point                                | : 14 °C                           |
| Auto-ignition temperature                  | : No data available               |
| Decomposition temperature                  | : No data available               |
| Flammability (solid, gas)                  | : No data available               |
| Vapour pressure                            | : No data available               |
| Relative vapour density at 20 °C           | : No data available               |
| Relative density                           | : No data available               |
| Solubility                                 | : No data available               |
| Log Pow                                    | : No data available               |
| Viscosity, kinematic                       | : No data available               |
| Viscosity, dynamic                         | : No data available               |

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Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : No data available

### 9.2. Other information

No additional information available

## 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

No additional information available

### 10.4. Conditions to avoid

Direct sunlight. Air contact. Overheating.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

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### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

No additional information available

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

|               |        |
|---------------|--------|
| UN-No. (ADR)  | : 1170 |
| UN-No. (IMDG) | : 1170 |
| UN-No. (IATA) | : 1170 |
| UN-No. (ADN)  | : 1170 |
| UN-No. (RID)  | : 1170 |

### 14.2. UN proper shipping name

|                                       |                                                 |
|---------------------------------------|-------------------------------------------------|
| Proper Shipping Name (ADR)            | : ETHANOL (ETHYL ALCOHOL)                       |
| Proper Shipping Name (IMDG)           | : ETHANOL (ETHYL ALCOHOL)                       |
| Proper Shipping Name (IATA)           | : Ethanol                                       |
| Proper Shipping Name (ADN)            | : ETHANOL (ETHYL ALCOHOL)                       |
| Proper Shipping Name (RID)            | : ETHANOL (ETHYL ALCOHOL)                       |
| Transport document description (ADR)  | : UN 1170 ETHANOL (ETHYL ALCOHOL), 3, II, (D/E) |
| Transport document description (IMDG) | : UN 1170 ETHANOL (ETHYL ALCOHOL), 3, II        |
| Transport document description (IATA) | : UN 1170 Ethanol, 3, II                        |
| Transport document description (ADN)  | : UN 1170 ETHANOL (ETHYL ALCOHOL), 3, II        |
| Transport document description (RID)  | : UN 1170 ETHANOL (ETHYL ALCOHOL), 3, II        |

### 14.3. Transport hazard class(es)

#### ADR

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADR) | : 3 |
| Danger labels (ADR)              | : 3 |

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|                                    |   |                                                                                     |
|------------------------------------|---|-------------------------------------------------------------------------------------|
|                                    | : |    |
| <b>IMDG</b>                        |   |                                                                                     |
| Transport hazard class(es) (IMDG)  | : | 3                                                                                   |
| Danger labels (IMDG)               | : | 3                                                                                   |
|                                    | : |    |
| <b>IATA</b>                        |   |                                                                                     |
| Transport hazard class(es) (IATA)  | : | 3                                                                                   |
| Hazard labels (IATA)               | : | 3                                                                                   |
|                                    | : |    |
| <b>ADN</b>                         |   |                                                                                     |
| Transport hazard class(es) (ADN)   | : | 3                                                                                   |
| Danger labels (ADN)                | : | 3                                                                                   |
|                                    | : |  |
| <b>RID</b>                         |   |                                                                                     |
| Transport hazard class(es) (RID)   | : | 3                                                                                   |
| Danger labels (RID)                | : | 3                                                                                   |
|                                    | : |  |
| <b>14.4. Packing group</b>         |   |                                                                                     |
| Packing group (ADR)                | : | II                                                                                  |
| Packing group (IMDG)               | : | II                                                                                  |
| Packing group (IATA)               | : | II                                                                                  |
| Packing group (ADN)                | : | II                                                                                  |
| Packing group (RID)                | : | II                                                                                  |
| <b>14.5. Environmental hazards</b> |   |                                                                                     |
| Dangerous for the environment      | : | No                                                                                  |
| Marine pollutant                   | : | No                                                                                  |
| Other information                  | : | No supplementary information available                                              |

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### 14.6. Special precautions for user

#### - Overland transport

|                                                           |                     |
|-----------------------------------------------------------|---------------------|
| Classification code (ADR)                                 | : F1                |
| Special provisions (ADR)                                  | : 144, 601          |
| Limited quantities (ADR)                                  | : 1I                |
| Excepted quantities (ADR)                                 | : E2                |
| Packing instructions (ADR)                                | : P001, IBC02, R001 |
| Mixed packing provisions (ADR)                            | : MP19              |
| Portable tank and bulk container instructions (ADR)       | : T4                |
| Portable tank and bulk container special provisions (ADR) | : TP1               |
| Tank code (ADR)                                           | : LGBF              |
| Vehicle for tank carriage                                 | : FL                |
| Transport category (ADR)                                  | : 2                 |
| Special provisions for carriage - Operation (ADR)         | : S2, S20           |
| Hazard identification number (Kemler No.)                 | : 33                |
| Orange plates                                             | :                   |



|                               |        |
|-------------------------------|--------|
| Tunnel restriction code (ADR) | : D/E  |
| EAC code                      | : •2YE |

#### - Transport by sea

|                                    |                                                                                                                       |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Special provisions (IMDG)          | : 144                                                                                                                 |
| Limited quantities (IMDG)          | : 1 L                                                                                                                 |
| Excepted quantities (IMDG)         | : E2                                                                                                                  |
| Packing instructions (IMDG)        | : P001                                                                                                                |
| IBC packing instructions (IMDG)    | : IBC02                                                                                                               |
| Tank instructions (IMDG)           | : T4                                                                                                                  |
| Tank special provisions (IMDG)     | : TP1                                                                                                                 |
| EmS-No. (Fire)                     | : F-E                                                                                                                 |
| EmS-No. (Spillage)                 | : S-D                                                                                                                 |
| Stowage category (IMDG)            | : A                                                                                                                   |
| Properties and observations (IMDG) | : Colourless, volatile liquids. Pure ETHANOL: flashpoint 13°C c.c. Explosive limits: 3.3% to 19% Miscible with water. |

#### - Air transport

|                                              |                 |
|----------------------------------------------|-----------------|
| PCA Excepted quantities (IATA)               | : E2            |
| PCA Limited quantities (IATA)                | : Y341          |
| PCA limited quantity max net quantity (IATA) | : 1L            |
| PCA packing instructions (IATA)              | : 353           |
| PCA max net quantity (IATA)                  | : 5L            |
| CAO packing instructions (IATA)              | : 364           |
| CAO max net quantity (IATA)                  | : 60L           |
| Special provisions (IATA)                    | : A3, A58, A180 |
| ERG code (IATA)                              | : 3L            |

#### - Inland waterway transport

|                           |            |
|---------------------------|------------|
| Classification code (ADN) | : F1       |
| Special provisions (ADN)  | : 144, 601 |
| Limited quantities (ADN)  | : 1 L      |

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Excepted quantities (ADN) : E2  
Carriage permitted (ADN) : T  
Equipment required (ADN) : PP, EX, A  
Ventilation (ADN) : VE01  
Number of blue cones/lights (ADN) : 1

### - Rail transport

Classification code (RID) : F1  
Special provisions (RID) : 144, 601  
Limited quantities (RID) : 1L  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P001, IBC02, R001  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T4  
Portable tank and bulk container special provisions (RID) : TP1  
Tank codes for RID tanks (RID) : LGBF  
Transport category (RID) : 2  
Colis express (express parcels) (RID) : CE7  
Hazard identification number (RID) : 33

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

##### Germany

Reference to AwSV : Water hazard class (WGK) 1, low hazard to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : Ethanol is listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : Ethanol is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : Ethanol is listed

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NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : Ethanol is listed

### Denmark

Class for fire hazard : Class I-1

Store unit : 1 liter

Classification remarks : F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Pregnant/breastfeeding women working with the product must not be in direct contact with the product

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

Full text of H- and EUH-statements:

|               |                                                                                            |
|---------------|--------------------------------------------------------------------------------------------|
| Eye Irrit. 2  | Serious eye damage/eye irritation, Category 2                                              |
| Flam. Liq. 2  | Flammable liquids, Category 2                                                              |
| Flam. Liq. 3  | Flammable liquids, Category 3                                                              |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1A                                                     |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2                                                      |
| STOT SE 2     | Specific target organ toxicity — Single exposure, Category 2                               |
| STOT SE 3     | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H225          | Highly flammable liquid and vapour.                                                        |
| H226          | Flammable liquid and vapour.                                                               |
| H314          | Causes severe skin burns and eye damage.                                                   |
| H315          | Causes skin irritation.                                                                    |
| H319          | Causes serious eye irritation.                                                             |
| H335          | May cause respiratory irritation.                                                          |
| H371          | May cause damage to organs.                                                                |

*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*