



## RESORCINOL TS ACC. TO USP

## MATERIAL SAFETY DATA SHEET SDS/MSDS

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

#### 1.1 Product identifiers

Product name : Resorcinol TS acc. to USP

Product Code : 883215

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

Identified uses : Laboratory chemicals, Industrial & for professional use only.

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

Company : Central Drug House (P) Ltd  
7/28 Vardaan House  
Ansari Road Daryaganj  
New Delhi -110002  
INDIA

Telephone : +91 11 49404040

Email : [care@cdhfinechemical.com](mailto:care@cdhfinechemical.com)

#### 1.4 Emergency telephone number

Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Acute oral toxicity (Category 3), H301

Acute inhalation toxicity (Category 2), H330

Skin irritation (Category 1), H314

Eye irritation (Category 1), H318

Respiratory Sensitizer (Category 1), H334

Skin Sensitizer (Category 1), H317

Specific target organs/systemic toxicity following single exposure (Category 1), H370

Specific target organs/systemic toxicity following repeated exposure (Category 1), H372

Corrosive to metals (Category 1), H290

Hazardous to the Aquatic environment(Acute) (Category 1), H400

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 Label elements

##### Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Warning

|                            |  |
|----------------------------|--|
| Hazard statement(s)        |  |
| H290                       | May be corrosive to metals.  |
| H301                       | Toxic if swallowed.  |
| H314                       | Causes severe skin burns and eye damage.   |
| H317                       | May cause an allergic skin reaction.   |
| H318                       | Causes serious eye damage.   |
| H330                       | Fatal if inhaled.  |
| H334                       | May cause allergy or asthma symptoms or breathing difficulties if inhaled.   |
| H370                       | Causes damage to organs.   |
| H372                       | Causes damage to organs through prolonged or repeated exposure.  |
| H400                       | Very toxic to aquatic life.  |
| Precautionary statement(s) |  |
| P234                       | Keep only in original container.   |
| P260                       | Do not breathe fumes, mist, vapors, or spray.  |
| P264                       | Wash arms, hands and face thoroughly after handling.   |
| P270                       | Do not eat, drink or smoke when using this product.  |
| P271                       | Use only outdoors or in a well-ventilated area.  |
| P273                       | Avoid release to the environment.  |
| P280                       | Wear protective gloves and eye protection.   |
| P285                       | In case of inadequate ventilation wear respiratory protection.   |
| P301 + P330 + P331         | IF SWALLOWED: rinse mouth. Do NOT induce vomiting.   |
| P302 + P352                | IF ON SKIN: Wash with plenty of soap and water.  |
| P303 + P361 + P353         | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.                                     |
| P304 + P340                | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P305 + P351 + P338         | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P307 + P311                | IF exposed: Call a POISON CENTER or physician.   |
| P310                       | Immediately call a POISON CENTER or physician.   |
| P314                       | Get medical attention if you feel unwell.  |
| P320                       | Specific treatment is urgent (Wash areas of contact with water).   |
| P332 + P313                | If skin irritation occurs: Get medical attention.  |
| P342 + P311                | If experiencing respiratory symptoms: Call a POISON CENTER or physician.   |
| P363                       | Wash contaminated clothing before reuse.   |
| P390                       | Absorb spillage to prevent material damage.  |
| P403 + P233                | Store in a well-ventilated place. Keep container tightly closed.   |
| P405                       | Store locked up.   |
| P501                       | Dispose of contents in accordance with local, state, federal and international regulations.                                      |

## 2.3 Other hazards

The substance does not fulfill the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

## SECTION 3: Composition/information on ingredients

### 3.1 Mixtures

| Hazardous ingredients according to Regulation (EC) No 1272/2008 |  |                  |           |          |
|---|--|------------------|-----------|----------|
| Component   | Formula                                      | Molecular Weight | CAS No.   | weight % |
| Water   | H <sub>2</sub> O                             | 18.01 g/mol      | 7732-18-5 | 62.46 %  |
| Hydrochloric Acid   | HCl  | 36.46 g/mol      | 7647-01-0 | 36.68 %  |
| Resorcinol  | C <sub>6</sub> H <sub>6</sub> O <sub>2</sub> | 110.11 g/mol     | 108-46-3  | 0.85 %   |

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

**In case of skin contact**

Take off immediately all contaminated clothing. Rinse skin with water. Can cause redness, pain and severe skin burns. Will pass through unbroken skin to cause toxic systemic effects, including blood and nervous system disorders.

**In case of eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May cause severe burns and permanent damage.

**If swallowed**

Rinse mouth. Do NOT induce vomiting. Do not induce vomiting. Give large quantity of water. Call a physician immediately.

**4.2 Most important symptoms and effects, both acute and delayed**

DANGER! Corrosive liquid! Causes severe burns to all areas of contact. May be fatal if swallowed. Wash areas of contact with water immediately for at least 15 minutes. Inhalation can cause coughing, choking, inflammation of the nose, throat and upper respiratory tract. If ingested, give large quantity of water. Do not induce vomiting. Call a physician immediately. EYE CONTACT: May cause severe burns and permanent damage. SKIN CONTACT: Can cause redness, pain and severe skin burns. Will pass through unbroken skin to cause toxic systemic effects, including blood and nervous system disorders. CHRONIC EFFECTS / CARCINOGENICITY: Resorcinol is a suspected carcinogen.

**4.3 Indication of any immediate medical attention and special treatment needed**

Immediately call a POISON CENTER or physician. Specific treatment is urgent (Wash areas of contact with water). Specific treatment (Wash areas of contact with water).

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Does not burn. Use extinguishing agents compatible with acid and appropriate for the burning material.

**5.2 Special hazards arising from the substance or mixture**

Not combustible. Aqueous hydrochloric acid solutions react with most metals, forming flammable hydrogen gas.

**5.3 Advice for firefighters**

Wear special protective clothing and positive pressure self-contained breathing apparatus. Butyl rubber or Teflon barrier recommended.

**5.4 Further information**

No data available

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

**6.2 Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment.

**6.3 Methods and materials for containment and cleaning up**

Approach release from upwind. Stop or control the leak, if this can be done without undue risk. Use water fog or spray to knock down and absorb vapors. Releases may require isolation or evacuation. Control runoff and isolate discharged material for proper disposal.

**6.4 Reference to other sections**

See section 8. Exposure controls/personal protection

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

**Handling:** Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

**Technical protective measures:** Provide good ventilation in process area to prevent formation of vapour.

## 7.2 Conditions for safe storage, including any incompatibilities

**Storage:** Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

**Storage- away from:** Strong bases, strong acids, sources of ignition, direct sunlight.

## 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

##### Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If the full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### Control of environmental exposure

Do not let product enter drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- |   |   |
|---|---|
| a) Appearance                                   | Form: liquid<br>Colour: Colourless to slightly greenish-yellow liquid |
| b) Odour  | No data available   |
| c) Odour Threshold                              | No data available   |
| d) pH   | < 1   |
| e) Melting point/freezing point                 | No data available   |
| f) Initial boiling point and boiling range      | Approximately 100°C - Approximately 100°C                             |
| g) Flash point                                  | No data available   |
| h) Evaporation rate                             | No data available   |
| i) Flammability (solid, gas)                    | No data available   |
| j) Upper/lower flammability or explosive limits | No data available   |

|    |  |                   |
|----|--|-------------------|
| k) | Vapour pressure                        | No data available |
| l) | Vapour density                         | No data available |
| m) | Relative density                       | 1.17 g/ml at 20°C |
| n) | Water solubility                       | miscible          |
| o) | Partition coefficient: n-octanol/water | No data available |
| p) | Auto-ignition temperature              | No data available |
| q) | Decomposition temperature              | No data available |
| r) | Viscosity                              | No data available |
| s) | Explosive properties                   | No data available |
| t) | Oxidizing properties                   | No data available |

## 9.2 Other safety information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5 Incompatible materials

Most metals, Alkalis, active metals, Cyanides, Sulfides, Sulfites, Metal Oxides, Formaldehyde.

### 10.6 Hazardous decomposition products

No data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute oral toxicity

Toxic if swallowed. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water). Rinse mouth. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### Acute inhalation toxicity

Fatal if inhaled. Do not breathe fumes, mist, vapors, or spray. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment is urgent (Wash areas of contact with water). Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### Skin corrosion/irritation

Causes severe skin burns and eye damage. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water). IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

**Serious eye damage/eye irritation**

Causes serious eye damage. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

**Respiratory sensitisation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid breathing fumes, mist, vapors, or spray. In case of inadequate ventilation wear respiratory protection. IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or physician. Dispose of contents in accordance with local, state, federal and international regulations.

**skin sensitization**

May cause an allergic skin reaction. Avoid breathing fumes, mist, vapors, or spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves and eye protection. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Specific treatment (Wash areas of contact with water). Wash contaminated clothing before reuse. Dispose of contents in accordance with local, state, federal and international regulations.

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

Causes damage to organs. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed: Call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water). Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

**Specific target organ toxicity - repeated exposure**

Causes damage to organs through prolonged or repeated exposure. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Get medical attention if you feel unwell. Dispose of contents in accordance with local, state, federal and international regulations.

**Aspiration hazard**

No data available

**Additional Information**

No data available

**SECTION 12: Ecological information**

**12.1 Toxicity**

Very toxic to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations.

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

The substance does not fulfill the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

## 12.6 Other adverse effects

**Environmental precautions:** Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

#### Contaminated packaging

Dispose of as unused product.

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID: - 1789

IMDG: - 1789

IATA: - 1789

### 14.2 UN proper shipping name

ADR/RID: Hydrochloric Acid Solution

IMDG: Hydrochloric Acid Solution

IATA: Hydrochloric Acid Solution

### 14.3 Transport hazard class(es)

ADR/RID: - 8

IMDG: - 8

IATA: - 8

### 14.4 Packaging group

ADR/RID: - II

IMDG: - II

IATA: - II

### 14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### 14.6 Special precautions for user

No data available

## SECTION 15: Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

## SECTION 16: Other information

### Full text of H-Statements referred to under sections 2 and 3.

|      |  |
|------|--|
| H290 | May be corrosive to metals.  |
| H301 | Toxic if swallowed.  |
| H314 | Causes severe skin burns and eye damage.                                   |
| H317 | May cause an allergic skin reaction.                                       |
| H318 | Causes serious eye damage.   |
| H330 | Fatal if inhaled.  |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H370 | Causes damage to organs.   |
| H372 | Causes damage to organs through prolonged or repeated exposure.            |
| H400 | Very toxic to aquatic life.  |

### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.cdhfinechemical.com](http://www.cdhfinechemical.com) for additional terms and conditions of sale.