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1 Identification of the substance/mixture and of the company/undertaking

· **Informations to product No. 5566**

· **Product name:**

Resorcin
Resorcinolum, Resorcinum

· **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH
Herderstr. 31
40721 Hilden
Tel.: 02103/4994-0
Fax: 02103/32360
e-mail: info@caelo.de

· **Emergency telephone:**

Giftinformationszentrum Mainz
Langenbeckstr. 1, 55131 Mainz
Tel.: 06131/19240

· **Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

· **Application of the substance / mixture:**

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

2 Hazards identification

· **GHS-Labeling Elements:**



· **Signal word:** Warning


· **H-Phrases:**

H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation
H400 Very toxic to aquatic life

· **P-Phrases:**

P280 Wear protective gloves/protective clothing/eye protection/face protection
P302 IF ON SKIN:
P352 Wash with soap and water
P305 IF IN EYES:
P351 Rinse continuously with water for several minutes
P273 Avoid release to the environment

Acute Tox. 4

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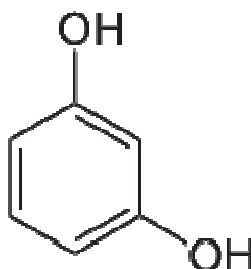
Skin Irrit. 2
Skin Sens. 1B
Eye Irrit. 2
Aquatic Acute 1

3 Composition / information on ingredients

CAS-No. Substance name

108-46-3 Resorcin

- **EINECS-No.:** 203-585-2
- **Index-No.:** 604-010-00-1
- **REACH Reg. No.:** 01-2119480136-40-0000
- **INCI-Name:** Resorcinol
- **Chemical characterization:**



4 First aid measures


- **after inhalation:** Bring the person out of the contaminated area to fresh air, Seek medical help immediately. Show product-label or this MSDS.
- **after skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open. If irritation continues, call in ophthalmologist.
- **after swallowing:** Drink water. Induce vomiting. Seek medical advice.

5 Fire-fighting measures

- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Combustible but not flammable. In case of fire dangerous gases / vapours can be released: Smoke gases.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

6 Accidental release measures

- **Personal protective measures:** Avoid dust formation and contact with substance.

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- **Environmental protective measures:** Prevent from entering into drains.
- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.

7 Handling and storage

- **Handling:**
- **Advice on safe handling:** Good ventilation / exhaustion of working place..
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C). Protect from light.

8 Exposure controls / personal protective equipment


- **Personal protective equipment:**
- **General protective and hygiene measures:**
Keep away from food, beverages and animal food.
Take off contaminated clothes immediately.
Wash hands before breaks and after work.
Avoid contact with eyes and skin.
- **Respiratory protection:** Dust protection mask.
- **Hand protection:** Protection gloves of latex or rubber.
- **Eye protection:** Safety glasses

9 Physical and chemical properties

- **Form:** solid
- **Colour:** white
- **Odour:** faint
- **Melting point / melting range:** 110 °C
- **Boiling point / boiling range:** 281,4 °C
- **Flash point:** 127 °C
- **Ignition temperature:** 605 °C
- **Vapour pressure:** (20 °C) 0,1 hPa
- **Density:** (20 °C) 1,271 g/cm³
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 1000 g/l
- **pH-range:** (100 g/l, 20 °C) ca. 4-6

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** Above melting point.
- **Materials to avoid:** Oxidants, air.
- **Hazardous decomposition products:** At high temperatures irritant or harmful vapours are released.
- **Additional information:** Combustible, reactive, air sensitive, light sensitive, Dust explosion possible.

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11 Toxicological information

RTECS#: CAS# 108-46-3: VG9625000

LD50/LC50: RTECS:

CAS# 108-46-3: Draize Test, Rabbit, Eye: 100 mg Severe;
Draize Test, Rabbit, Skin: 500 mg;
Draize Test, Rabbit, Skin: 20 mg/24H Moderate;
Oral, Mouse: LD50 = 200 mg/kg;
LD50 = 301 mg/kg;
LD50 = 301 mg/kg;
Skin, Rabbit: LD50 = 3360 mg/kg;
Skin, Rabbit: LD50 = 3360 mg/kg;
LDLo oral 29 mg/kg man

Carcinogenity: Resorcinol - IARC: Gruppe 3

• Additional toxicological informations:

Eye: Causes strong eye irritations. Causes edema and pains.

Skin: Causes skin irritations. Causes edema and pains. L After absorption symptoms similar to inhalation. Resorcine causes hyperemia, dermatitis, edema and Corrosion

Swallowing: Harmful if swallowed. Can cause irritations of gastrointestinal tract. Methemoglobine-Anemia is characterized by vertigo, fatigue, headache, respiratory insufficiency, cyanosis with blue coloured skin, high heart rate and brown-coloured blood. Overexposition can cause methemoglobinemia. Can affect central nervous system. Can cause illness with vertigo, asphyxia, raised breathing rate, vomiting, paleness, muscle cramps, cyanosis, delirium and collapse.

Inhalation: Can cause irritations of respiratory tract, methemoglobin-Anemia, cyanosis, cramps, tachycardia (very accelerated heart rate), respiratory insufficiency and death. Can cause irritations of respiratory tract like burning pains in nose and throat, coughing, gasping and lung edema. Can be harmful if inhaled. Inhalation can cause weakness, fatigue, vertigo.

Chronical: can cause methemoglobinemia. Chronical exposition can cause effects on blood. Repeated or enduring exposition can cause allergic reactions for sensitive persons. Long-termed exposition can damage liver, kidneys, heart.

12 Ecological information

• Information about elimination (persistence and degradability):

Readily biodegradable in water.

BSB 61% of ThSB/5d. CSB 100% of ThSB. ThSB 1.89 g/g.

• Log pOW: 0,8

• Aquatic toxicity:

Forms harmful mixtures with water

Toxic for water organisms:


Sc. quadricauda LC0 60 mg/l

Daphnia magna LC0 1 mg/l

C. carpio LC0 35 mg/l

P. promelas LC50 89 mg/l/24h.

• Water hazard class: 2 (VwVwS): hazardous for water.

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13 Disposal considerations

- **Product:**
- **Recommendation:** Disposal according to local regulations as pharmaceutical waste or organic laboratory chemicals.
- **Empty contaminated packaging:**
- **Recommendation:** Disposal according to the local regulations.

14 Transport informations


- **Land transport according to ADR:**
- **Proper shipping name:** Resorcin
- **Class:** 6.1
- **UN-number:** 2876
- **Packing group:** III
- **Classification code:** T2
- **Limited quantities (Table 3.4.6. ADR):** 5 kg
- **Hazard classification number:** 60
- **Special provisions (Chapter 3.3 ADR):** -
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-A, S-A
- **Properties:** -

15 Regulatory information

- **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**
The product is classified and labelled according to GHS-regulations.
- **Hazard symbols:** GHS07, GHS09
- **Signal word:** Warning
- **H-Phrases:**
H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation
H400 Very toxic to aquatic life
- **P-Phrases:**
P280 Wear protective gloves/protective clothing/eye protection/face protection
P302 IF ON SKIN:
P352 Wash with soap and water
P305 IF IN EYES:
P351 Rinse continuously with water for several minutes
P273 Avoid release to the environment
- **National regulations (Germany):**
- **Water hazard class:** see chapter 12
- **Storage class TRGS 510:** 11

16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

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· **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.