

# 4-Bromoresorcinol

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Date of issue: 9/12/2019 Version: 1.0

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

#### 1.1. Product identifier

|                |                                                  |
|----------------|--------------------------------------------------|
| Product form   | : Substance                                      |
| Substance name | : 4-Bromoresorcinol                              |
| IUPAC name     | : 4-bromobenzene-1,3-diol                        |
| EC-No.         | : 229-586-8                                      |
| CAS-No.        | : 6626-15-9                                      |
| Product code   | : 20155004                                       |
| Formula        | : C <sub>6</sub> H <sub>5</sub> BrO <sub>2</sub> |
| Product group  | : Raw material                                   |

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

##### 1.2.1. Relevant identified uses

|                                  |                                                                                                                       |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Main use category                | : Laboratory use, Industrial use, Professional use                                                                    |
| Industrial/Professional use spec | : For professional use only                                                                                           |
| Use of the substance/mixture     | : For analytical purposes<br>Scientific research and development<br>Not for human consumption or veterinary purposes. |

##### 1.2.2. Uses advised against

No additional information available

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

##### Supplier

Safell Organics  
Molekula Ltd  
Lingfield Way  
Darlington - England  
T +44 (0) 1949 823777 / +44 (0) 7590 545705  
[info@molekula.com](mailto:info@molekula.com) / [kbowen@molekula.com](mailto:kbowen@molekula.com) - [www.molekula.com](http://www.molekula.com)

#### 1.4. Emergency telephone number

Emergency number : +44 (0) 7590 545705

### SECTION 2: Hazards identification

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

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

|                                                                                               |      |
|-----------------------------------------------------------------------------------------------|------|
| Acute toxicity (oral), Category 4                                                             | H302 |
| Acute toxicity (dermal), Category 4                                                           | H312 |
| Acute toxicity (inhalation: dust, mist) Category 4                                            | H332 |
| Skin corrosion/irritation, Category 2                                                         | H315 |
| Serious eye damage/eye irritation, Category 2                                                 | H319 |
| Specific target organ toxicity — Single exposure, Category 3,<br>Respiratory tract irritation | H335 |

Full text of H statements : see section 16

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

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

|                         |                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal word (CLP)       | : Warning                                                                                                                                                                                           |
| Hazard statements (CLP) | : H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.<br>H315 - Causes skin irritation.<br>H319 - Causes serious eye irritation.<br>H335 - May cause respiratory irritation. |

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### Precautionary statements (CLP)

: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

| Name              | Product identifier                        | %   |
|-------------------|-------------------------------------------|-----|
| 4-Bromoresorcinol | (CAS-No.) 6626-15-9<br>(EC-No.) 229-586-8 | 100 |

Full text of H-statements: see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |                                                                                                                                                                                                                                         |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : If possible show this sheet, if not available show packaging or label. Never give anything by mouth to an unconscious person. Do not leave affected person unattended.                                                                |
| First-aid measures after inhalation   | : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. If breathing difficulties persist : Get medical advice/attention. |
| First-aid measures after skin contact | : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Do not remove clothing if it sticks to the skin. If irritation persists, consult a doctor.                        |
| First-aid measures after eye contact  | : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.                                                                 |
| First-aid measures after ingestion    | : Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention.                                                                                                                                                     |

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

|                                     |                                                                                                                                       |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : Harmful if inhaled. Inhalation may cause irritation (cough, short breathing, difficulty in breathing). Headache. Burning sensation. |
| Symptoms/effects after skin contact | : Harmful in contact with skin. Causes skin irritation. Itching. Redness, pain.                                                       |
| Symptoms/effects after eye contact  | : Causes serious eye irritation. redness, itching, tears. stinging.                                                                   |
| Symptoms/effects after ingestion    | : Harmful if swallowed. Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting.                    |

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

Get immediate medical advice/attention.

## SECTION 5: Firefighting measures

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

|                                                  |                                                           |
|--------------------------------------------------|-----------------------------------------------------------|
| Hazardous decomposition products in case of fire | : Carbon oxides (CO, CO <sub>2</sub> ). hydrogen bromide. |
|--------------------------------------------------|-----------------------------------------------------------|

### 5.3. Advice for firefighters

|                                |                                                                                                                                                                       |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautionary measures fire    | : Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials.                                                           |
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection.                                                                       |
| Other information              | : Warn all persons of toxic hazard.                                                                                                                                   |

## SECTION 6: Accidental release measures

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

|                  |                                                                                                                                            |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| General measures | : Isolate from fire, if possible, without unnecessary risk. Avoid dust formation. No flames, no sparks. Eliminate all sources of ignition. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.1.1. For non-emergency personnel

|                      |                                                   |
|----------------------|---------------------------------------------------|
| Protective equipment | : Wear recommended personal protective equipment. |
|----------------------|---------------------------------------------------|

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|                                  |                                                                                                                                                                                                                    |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Emergency procedures             | : Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Do not touch or walk on the spilled product. Avoid contact with skin, eyes and clothing. |
| Measures in case of dust release | : Keep upwind. Avoid creating or spreading dust. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).                                                                              |

### 6.1.2. For emergency responders

|                      |                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Equip cleanup crew with proper protection. Use self-contained breathing apparatus and chemically protective clothing. |
| Emergency procedures | : Ventilate area.                                                                                                       |

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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

|                         |                                                                                                                     |
|-------------------------|---------------------------------------------------------------------------------------------------------------------|
| Methods for cleaning up | : On land, sweep or shovel into suitable containers. Shovel or sweep up and put in a closed container for disposal. |
|-------------------------|---------------------------------------------------------------------------------------------------------------------|

### 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 | : Avoid creating or spreading dust. Provide local exhaust or general room ventilation.                                                                                                                                                               |
| Hygiene measures              | : Take off immediately all contaminated clothing and wash it before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. |

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

|                           |                                                                                                                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical measures        | : Ensure adequate ventilation, especially in confined areas.                                                                                                                             |
| Storage conditions        | : Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight. Keep container closed when not in use. Air sensitive. Light sensitive. |
| Incompatible products     | : Strong oxidizing agents. Acid anhydrides. Acid chlorides.                                                                                                                              |
| Incompatible materials    | : Sources of ignition. Direct sunlight. Heat sources.                                                                                                                                    |
| Heat and ignition sources | : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                                                                         |
| Storage area              | : Store below 20 °C. Store in a dry place. Store in a closed container.                                                                                                                  |

### 7.3. Specific end use(s)

For analytical purposes. Scientific research and development. Not for human consumption or veterinary purposes.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

#### Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety procedures.

#### Personal protective equipment:

Avoid all unnecessary exposure.

|                                                                                                                                                                                              |                      |                                                   |                       |                    |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------|-----------------------|--------------------|-----------------|
| <b>Materials for protective clothing:</b>                                                                                                                                                    |                      |                                                   |                       |                    |                 |
| Wear suitable protective clothing, gloves and eye/face protection                                                                                                                            |                      |                                                   |                       |                    |                 |
| <b>Hand protection:</b>                                                                                                                                                                      |                      |                                                   |                       |                    |                 |
| The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374                                                            |                      |                                                   |                       |                    |                 |
| <b>Type</b>                                                                                                                                                                                  | <b>Material</b>      | <b>Permeation</b>                                 | <b>Thickness (mm)</b> | <b>Penetration</b> | <b>Standard</b> |
| Disposable gloves                                                                                                                                                                            | Nitrile rubber (NBR) | 6 (> 480 minutes)                                 | 0.11                  |                    | EN 374          |
| <b>Eye protection:</b>                                                                                                                                                                       |                      |                                                   |                       |                    |                 |
| Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Use eye protection according to EN 166, designed to protect against powders and dusts. |                      |                                                   |                       |                    |                 |
| <b>Type</b>                                                                                                                                                                                  | <b>Use</b>           | <b>Characteristics</b>                            |                       | <b>Standard</b>    |                 |
| Safety goggles                                                                                                                                                                               | Fine dust, Dust      | tightly fitting safety goggles, With side shields |                       | EN 166             |                 |

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### Skin and body protection:

Emergency safety showers should be available in the immediate vicinity of any potential exposure. Keep suitable chemically resistant protective clothing readily available for emergency use

| Type                                                         | Standard     |
|--------------------------------------------------------------|--------------|
| Protective clothing (with elasticated cuffs and closed neck) | EN ISO 13982 |

### Respiratory protection:

Keep self contained breathing apparatus readily available for emergency use. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

| Device                                               | Filter type      | Condition       | Standard |
|------------------------------------------------------|------------------|-----------------|----------|
| Respiratory protective device with a particle filter | Type P1, Type P2 | Dust protection | EN 14387 |

### 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                             | : Solid               |
| Appearance                                 | : Crystalline powder. |
| Molecular mass                             | : 189.01 g/mol        |
| Colour                                     | : Off-white.          |
| Odour                                      | : No data available.  |
| Odour threshold                            | : No data available   |
| pH                                         | : No data available   |
| Relative evaporation rate (butylacetate=1) | : No data available   |
| Melting point                              | : 97 - 100 °C lit.    |
| Freezing point                             | : No data available   |
| Boiling point                              | : 150 °C lit.         |
| Flash point                                | : No data available   |
| Auto-ignition temperature                  | : No data available   |
| Decomposition temperature                  | : No data available   |
| Flammability (solid, gas)                  | : Non flammable.      |
| 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   |
| 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

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

### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Air contact. Light sensitive.

### 10.5. Incompatible materials

Strong oxidizers. Acid anhydrides. Acid chlorides.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. Thermal decomposition generates : Carbon oxides (CO, CO<sub>2</sub>). hydrogen bromide.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|                                                     |                                                                     |
|-----------------------------------------------------|---------------------------------------------------------------------|
| Acute toxicity (oral)                               | : Oral: Harmful if swallowed.                                       |
| Acute toxicity (dermal)                             | : Dermal: Harmful in contact with skin.                             |
| Acute toxicity (inhalation)                         | : Inhalation:dust,mist: Harmful if inhaled.                         |
| Skin corrosion/irritation                           | : Causes skin irritation.                                           |
| Additional information                              | : Based on available data, the classification criteria are not met  |
| Serious eye damage/irritation                       | : Causes serious eye irritation.                                    |
| Additional information                              | : Based on available data, the classification criteria are not met  |
| Respiratory or skin sensitisation                   | : Not classified                                                    |
| Additional information                              | : Based on available data, the classification criteria are not met  |
| Germ cell mutagenicity                              | : Not classified                                                    |
| Additional information                              | : Based on available data, the classification criteria are not met  |
| Carcinogenicity                                     | : Not classified                                                    |
| Additional information                              | : Based on available data, the classification criteria are not met  |
| Reproductive toxicity                               | : Not classified                                                    |
| Additional information                              | : Based on available data, the classification criteria are not met  |
| STOT-single exposure                                | : May cause respiratory irritation.                                 |
| Additional information                              | : Based on available data, the classification criteria are not met  |
| STOT-repeated exposure                              | : Not classified                                                    |
| Additional information                              | : Based on available data, the classification criteria are not met  |
| Aspiration hazard                                   | : Not classified                                                    |
| Additional information                              | : Based on available data, the classification criteria are not met  |
| Potential adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |

### SECTION 12: Ecological information

#### 12.1. Toxicity

|                          |                  |
|--------------------------|------------------|
| Acute aquatic toxicity   | : Not classified |
| Chronic aquatic toxicity | : Not classified |

#### 12.2. Persistence and degradability

##### 4-Bromoresorcinol (6626-15-9)

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | No data available. |
|-------------------------------|--------------------|

#### 12.3. Bioaccumulative potential

##### 4-Bromoresorcinol (6626-15-9)

|                           |                    |
|---------------------------|--------------------|
| Bioaccumulative potential | No data available. |
|---------------------------|--------------------|

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

##### 4-Bromoresorcinol (6626-15-9)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

#### 12.6. Other adverse effects

|                        |                                     |
|------------------------|-------------------------------------|
| Additional information | : Avoid release to the environment. |
|------------------------|-------------------------------------|

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|                                            |                                                                           |
|--------------------------------------------|---------------------------------------------------------------------------|
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. |
| Ecology - waste materials                  | : Avoid release to the environment.                                       |

### SECTION 14: Transport information

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

| ADR                    | IMDG          | IATA          | ADN           | RID           |
|------------------------|---------------|---------------|---------------|---------------|
| <b>14.1. UN number</b> |               |               |               |               |
| Not regulated          | Not regulated | Not regulated | Not regulated | Not regulated |

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### 14.2. UN proper shipping name

Not regulated

Not regulated

Not regulated

Not regulated

Not regulated

### 14.3. Transport hazard class(es)

Not regulated

Not regulated

Not regulated

Not regulated

Not regulated

### 14.4. Packing group

Not regulated

Not regulated

Not regulated

Not regulated

Not regulated

### 14.5. Environmental hazards

Not regulated

Not regulated

Not regulated

Not regulated

Not regulated

No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

### 14.7. Transport in bulk according to Annex II of Marpol 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

No REACH Annex XVII restrictions

4-Bromoresorcinol is not on the REACH Candidate List

Directive 2012/18/EU (SEVESO III)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

## SECTION 16: Other information

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

: None.

#### Full text of H- and EUH-statements:

|                                     |                                                                                            |
|-------------------------------------|--------------------------------------------------------------------------------------------|
| Acute Tox. 4 (Dermal)               | Acute toxicity (dermal), Category 4                                                        |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4                                           |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                                                          |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                                              |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                                                      |
| STOT SE 3                           | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H302                                | Harmful if swallowed.                                                                      |
| H312                                | Harmful in contact with skin.                                                              |
| H315                                | Causes skin irritation.                                                                    |
| H319                                | Causes serious eye irritation.                                                             |
| H332                                | Harmful if inhaled.                                                                        |

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|      |                                   |
|------|-----------------------------------|
| H335 | May cause respiratory irritation. |
|------|-----------------------------------|

SDS EU (REACH Annex II)

*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.*