

1. Identification of the Substance or Mixture and of the Supplier

GHS Product Identifier

Product Name	577
INCI Name	4-BUTYLRESORCINOL
Recommended Use of the Substance/Mixture	Depigmenting and Brightening Agent

2. Hazards Identification

Classification of the Substance or Mixture

Acute toxicity (oral), Category 4

Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 2

Hazardous to the aquatic environment — Acute hazard, Category 1

GHS Label Elements, Including Precautionary Statements

Pictogram:



Signal Word: Danger

Hazard Statements

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

H400 Very toxic to aquatic life

Precautionary Statements

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P273 Avoid release to the environment.

3. Composition/Information on Ingredients

INCI Name	Chemical Name	CAS No.	EC No.	Purity
4-BUTYLRESORCINOL	4-Butylresorcinol	18979-61-8	606-191-2	≥99%

4. First-Aid Measures

Description of Necessary First-Aid Measures

- **Inhalation** If inhaled, move the victim to fresh air. Keep the airway clear.
- **Skin Contact** Remove contaminated clothing and wash skin thoroughly with soap and water. Seek medical attention if discomfort occurs.
- **Eye Contact** Hold eyelids apart and rinse thoroughly with running water or saline for at least 15 minutes. Seek medical attention.
- **Ingestion** Rinse mouth. Do NOT induce vomiting. Seek medical attention immediately.
- **Advice for the Rescuer** Move the victim to a safe location. Consult a physician. Show this Safety Data Sheet to the attending physician.

Acute/Chronic Effects

- **Skin Contact** May cause skin irritation, with symptoms such as erythema and itching.
- **Eye Contact** May cause eye irritation, redness, swelling, pain, etc.
- **Treatment** Provide appropriate treatment based on the route of exposure and symptoms, such as skin cleansing, eye irrigation, and symptomatic management.

5. Fire-Fighting Measures

Suitable Extinguishing Media	Use water spray, dry chemical powder, foam, or carbon dioxide extinguishing agents.
Unsuitable Extinguishing Media	Avoid using a direct water jet, which may cause splashing of flammable liquids and spread the fire.
Special Fire-Fighting Procedures	Firefighters must wear self-contained breathing apparatus (SCBA) and full protective fire gear, and fight the fire from the upwind direction.
Specific Hazards Arising from the Substance or Mixture (Fire/Explosion Risk)	Combustible upon exposure to open flame, high temperature, or contact with strong oxidizing agents.
Hazardous Thermal Decomposition Products	Combustion decomposition products may include carbon monoxide, carbon dioxide, or other carbon-containing compounds.
Special Protective Equipment and Precautions for Firefighters	Wear self-contained breathing apparatus (SCBA), anti-static clothing, oil-resistant rubber gloves, etc.

6. Accidental Release Measures

Personal Precautions and Protective Equipment

Wear a gas mask, self-contained breathing apparatus (SCBA), oil-resistant rubber gloves, and safety goggles. Avoid inhaling vapors and contact with skin and eyes.

Environmental Precautions

Prevent spilled material from entering waterways, sewers, basements, or confined spaces. Collect spilled material to avoid environmental contamination.

Methods and Materials for Containment and Cleaning Up

Absorb spilled material with sand, activated carbon, or other inert materials and transfer to a safe location. Do NOT flush into sewers. Recover or transport to a waste disposal facility for treatment.

7. Handling and Storage

Handling

Handle in a well-ventilated area. Avoid generating and inhaling vapors. Keep away from ignition sources, heat sources, and strong oxidizing agents.

Storage

Store in a cool, well-ventilated warehouse. Keep away from ignition sources and heat sources. Store separately from oxidizing agents; do NOT co-store.

Stacking of Fiber Drums

Stacking height should not be excessive to prevent collapse. Maintain good ventilation.

Suitable Packaging Materials

Aluminum foil bags, fluorinated bottles, aluminum cans, fiber drums, plastic drums, etc.

Unsuitable Packaging Materials

Materials that come into contact with strong oxidizing agents, such as untreated metal packaging; transparent packaging, etc.

8. Exposure Controls/Personal Protection

Respiratory Protection Skin and Body Protection

When airborne concentration exceeds the limit, wear a self-contained breathing apparatus (SCBA).
Wear chemical-resistant protective clothing.

Hand Protection

Wear oil-resistant rubber gloves.

Eye Protection

Wear chemical safety goggles.

Environmental Exposure Controls

Enhance ventilation. Regularly monitor the concentration of 4-butylresorcinol in workplace air.

9. Physical and Chemical Properties

Appearance	
Physical State	Yellow or white powder
Color	Yellow or white
Odor	Characteristic odor
Odor Threshold	No data available
pH (1% aqueous dispersion)	No data available
Melting Point	51–55°C
Boiling Point	166°C/7 mmHg (lit.)
Flash Point	105°C (lit.)
Evaporation Rate	Not available
Flammability (Solid, Gas)	No data available
Explosive Limits (Upper/Lower)	No data available
Vapor Pressure	0.041 Pa at 25°C
Vapor Density	Not available
Bulk Density	No data available
Water Solubility	2636 mg/L, 25°C
Solubility	Dimethyl sulfoxide: 150 mg/mL (902.42 mM)
Partition Coefficient: n-Octanol/Water	2.8 at 24°C, pH 7
Autoignition Temperature	No data available
Decomposition Temperature	Not available
Surface Tension	17.8 mN/m at 1 g/L, 20°C

10. Stability and Reactivity

Reactivity	Stable under normal temperature and pressure. May react in the presence of high temperature or strong oxidizing agents.
Chemical Stability	Stable.
Hazardous Reactions	Not available.
Conditions to Avoid	Static discharge, moisture, heat, etc.
Materials to Avoid	Not available.
Hazardous Decomposition Products	Not available.

11. Toxicological Information

Acute Oral Toxicity	Not available
Acute Dermal Toxicity	Not available
Acute Inhalation Toxicity	Not available
Skin Corrosion/Irritation	Not available
Serious Eye Damage/Irritation	Not available
Respiratory/Skin Sensitization	Not available

Germ Cell Mutagenicity — In Vitro Tests

• Bacterial Reverse Mutation Test	Not available
• Mammalian Cell Gene Mutation Assay	Not available
• Mammalian Chromosome Aberration Test	Not available
• Carcinogenicity	Not available
• Reproductive Toxicity	Not available
• STOT — Single Exposure	Not available
• STOT — Repeated Exposure	Not available
• Aspiration Hazard	Not available
• Potential Routes of Exposure	Inhalation, skin contact, ingestion.
• Physical and Chemical-Related Symptoms and Toxicological Characteristics	Exposure to high concentrations may cause eye, respiratory tract, and skin irritation, increasing the risk of sensitization. Ingestion of large amounts may cause gastrointestinal discomfort.
• Effects of Short-Term and Long-Term Exposure	Short-term exposure to high concentrations may cause local irritation symptoms. Long-term exposure may increase the risk of skin sensitization or allergic dermatitis. Inhalation may lead to chronic inflammation of the respiratory mucosa and impose potential burden on the liver and kidneys.

12. Ecological Information

Short-Term Toxicity to Fish	Not available
Long-Term Toxicity to Fish	Not available
Short-Term Toxicity to Aquatic Invertebrates	Not available
Long-Term Toxicity to Aquatic Invertebrates	Not available
Toxicity to Aquatic Algae	Not available
Persistence and Degradability	Not available
Bioaccumulation Potential	Not available
Mobility in Soil	Not available
Other Adverse Effects	Not available

13. Disposal Considerations

Disposal Method: Recycle whenever possible. If recycling is not feasible, dispose of by incineration. Return containers to the manufacturer or dispose of in accordance with national and local regulations. Before disposal, refer to national and local regulations. Return containers to the manufacturer or handle in accordance with national regulations.

14. Transport Information

UN Number: UN2735.

Packaging Category: Category I Packaging.

Transport Precautions: Transport vehicles must be equipped with appropriate types and quantities of fire-fighting equipment and spill emergency response devices. Transport preferably in the morning or evening during summer. Protect from direct sunlight, rain, and high temperature during transit. During stops, keep away from ignition sources, heat sources, and high-temperature areas.

15. Regulatory Information

Domestic Regulations: Complies with the Safety and Technical Standards for Cosmetics, National Food Safety Standard for the Use of Food Additives, and other relevant regulatory requirements.

International Regulations: Complies with EU REACH regulations, U.S. FDA relevant provisions, etc. (specific requirements determined by the export destination).

16. Other Information

Not available

The information contained herein is based on data believed to be accurate. However, no express or implied warranty is made regarding the accuracy of such data or the results obtained from their use. If reasonable safety procedures specified in this data sheet are not followed, the company shall not be liable for any injury to the user or third parties directly caused by this material. Even if reasonable safety procedures are followed, the company shall not be liable for any injury to the user or third parties resulting from abnormal use of the material. Furthermore, the user assumes all risks associated with the use of this material.