

**Section 1. Identification****1.1 Product Identifier** CHE5480SE

Product Name BENZOIC ACID pure 250g.

CAS Number 65-85-0

REACH Registration No 01-2119455536-33-XXXX

Molecular Formula  $C_6H_5COOH = 122.12$ **1.2 Relevant identified uses of the substance or mixture & uses advised against**

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

**1.3 Supplier** SLS Select EducationWilford Industrial Estate  
Ruddington Lane  
Wilford  
Nottingham  
NG11 7EP  
UNITED KINGDOM

Phone 0115 9821111

Fax 0115 9825275

Email sales@scientific-labs.com

**1.4 Emergency Telephone** (08:00-17:00) 0115 9821111  
(24hr) 112  
(Have this document to hand)**Section 2. Hazards Identification****2.1 Classification of the substance or mixture****Classification according to regulation 1272/2008/EC**

Skin corrosion/irritation, category 2

Serious eye damage/irritation, category 1

Spec target organ tox - repeat, category 2

H315: Causes skin irritation.

H318: Causes serious eye damage.

H373: May cause damage to organs through prolonged or repeated exposure.

**2.2 Label elements****Labelling according to regulation 1272/2008/EC**

Signal word Danger

Hazard Pictograms



Hazard Statements Causes serious eye damage. Causes skin irritation. May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements Do not breathe dust / fume / gas / mist / vapours / spray. Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection. Take off contaminated clothing and wash before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. Immediately call a POISON CENTER or doctor/physician.

## Section 3. Composition

### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Benzoic Acid	65-85-0	200-618-2	01-211945536-33-XXXX	99%	Skin Irrit. 2, Eye Dam. 1, STOT RE 2

## Section 4. First Aid

### 4.1 Description of first aid measures

Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION.
Skin	Wash off skin thoroughly with water.
Inhalation	Remove from exposure.
Ingestion	Wash out the patients mouth thoroughly with water. In severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.
Personal protection for first aiders	Wear protective gloves / eye protection.

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

No further relevant information available.

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

No further relevant information available.

## Section 5. Fire Fighting

### 5.1 Extinguishing media

Extinguishing Media	Water spray, foam, dry powder or carbon dioxide.
Unsuitable Media	Nothing specified.

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

Hazards	Presents no specific fire danger.
---------	-----------------------------------

### 5.3 Advice for firefighters

Advice for firefighters	Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes.
-------------------------	---

## Section 6. Accidental Release Measures

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

Personal Protection	Avoid breathing dust-wear respiratory protective equipment.
---------------------	---

### 6.2 Environmental precautions

Environmental	Presents no major environmental hazard.
---------------	---

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

Major Spillage	Wet material with water to make it damp. This will prevent dispersal of the dust during disposal. Shovel/sweep up into container for removal Use only non sparking tools. Wash area down with detergent and copious amounts of water.
Minor Spillage	Wash area down with copious amounts of water.

### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum. Use only non sparking tools. Ground/bond container and receiving equipment.

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

Well ventilated, cool, dry storage .

### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

### 8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits			
			Long Term (8hr TWA)		Short Term 15min period	
Benzoic Acid	65-85-0	99%	-	-	-	-

Exposure data source(s) No occupational exposure data currently available.

### 8.2 Exposure controls

Respiratory Protection	If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.
Hand Protection	Wear gloves.
Eye Protection	Use tightly fitting chemical splash proof glasses or goggles.
Skin Protection	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.
Special Hazards	No special precautions required.

## Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance	White flakes.
Odour	No specific odour.
pH	3 @ 20°C solution.
Boiling Point	249°C
Melting Point	122°C
Flash Point	121°C (Closed cup)
Upper Flammable Limit	8.2%
Lower Flammable Limit	0.95%
Auto Ignition	574°C
Explosive Properties	No.
Oxidising Properties	No.
Vapour Pressure	<0.01hPa @ 20°C
Relative Density	1.3200
Water Solubility	0.29%

### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

<b>10.3</b>	Possibility of hazardous reactions	No data available.
<b>10.4</b>	Conditions to Avoid	No specific conditions.
<b>10.5</b>	Incompatible Materials	Strong oxidising agents. Reducing agents. Alkalis. Aqueous solutions react attack many metals with liberation of flammable hydrogen gas.
<b>10.6</b>	Hazardous Decomposition Products	May produce hazardous fumes if involved in a fire.

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

Eyes	Causes serious eye damage.
Skin	Irritating to skin. Guinea Pig
LD50 Skin	>2000mg/kg Rabbit
Ingestion	Harmful if swallowed.
LD50 Oral	2565mg/kg Rat
Inhalation	Inhalation of dust may produce irritation of the eyes, nose, throat and respiratory tract. Causes damage to organs through prolonged or repeated exposure.
LD50 Inhalation	12.2mg/l Rat
TCLo	Not available
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.

## Section 12. Ecological

<b>12.1</b>	Toxicity	Small amounts present no specific environmental hazard.
	LC50 Algal	>33.1mg/l Green algae (72 hours)
	LC50 Crustacea	>100mg/l Daphnia magna (48 hours)
	LC50 Fish	44.6mg/l Bluegill ( <i>Lepomis macrochirus</i> ) (96 hours)
<b>12.2</b>	Persistence and degradability	No data available.
<b>12.3</b>	Bioaccumulative potential	No data available.
<b>12.4</b>	Mobility in soil	No data available.
<b>12.5</b>	Results of PBT & vPvB assessment	Assessment not required.
<b>12.6</b>	Other adverse effects	None known at present.

## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

Disposal Methods	Do not dispose of as domestic waste. Dispose of to a licensed land fill site.
Contaminated Packaging	Wash out containers with water. Use a licensed waste disposer.

## Section 14. Transport Information

<b>14.1 UN Number</b>	Non-restricted
<b>14.2 Proper Shipping Name</b>	Non-restricted
<b>14.3 Transport classes</b>	
UN classification	None
Subsidiary hazard(s)	None
Transport category	None
ADR Hazard ID	Non-restricted
Tunnel Restriction Code	Non-restricted
<b>14.4 Packing Group</b>	None
<b>14.5 Environment hazards</b>	See section 12.
<b>14.6 Special precautions for user</b>	No special precautions required.
<b>14.7 Transport in bulk</b>	Not transported in bulk.

## Section 15. Regulatory Information

### 15.1 Safety, health and environment regulations specific for substance/mixture.

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 1; Spec target organ tox - repeat, category 2

Signal word Danger

Hazard Pictograms



Hazard Statements H318, H315, H373

Causes serious eye damage. Causes skin irritation. May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements P260, P264, P280, P362, P305+P351+P338, P310

Do not breathe dust / fume / gas / mist / vapours / spray. Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection. Take off contaminated clothing and wash before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. Immediately call a POISON CENTER or doctor/physician.

### 15.2 Chemical safety assessment

Assessment not required.

## Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

Revision number: 1.1 (Supercedes revision 1.0)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 25 January 2022

Copyright: 2022 SLS Select Education