



**PRODUCT: SODIUM BENZOATE (SOBE) REVISION: 7**

**DATED: 25/01/2022**

**PAGE 1 OF 6**

### PRODUCT SPECIFICATION

Product Name	Sodium Benzoate
Alternative Name	Benzoic Acid Sodium Salt
Analytical Compliance	BP2017, EP9, USP38, NF33, FCC9
Specification Reference	SOBE/6 (20/09/0094610)
<b>Property</b>	<b>Specification</b>
Characteristic	A white, almost odourless, crystalline powder or prill
Solubility	Freely soluble in water, sparingly in ethanol
Melting range for Benzoic Acid	121.5 – 123.5°C
<b>Identification</b>	
Benzoates	Positive
Sodium	Positive
<b>Appearance of solution</b>	
Clarity	Clear
Colour	Y6
Acidity or alkalinity (ml of 0.1N NaOH or HCL)	0.2ml max
<b>Halogenated compounds</b>	
Ionised chlorine	200 ppm max
Total chlorine	300 ppm max
Chlorinated organic compounds (in terms of chloride)	0.06% max
Heavy metals (in terms of lead)	10 ppm max
Arsenic	3 ppm max
Lead	2 ppm max
Mercury	1 ppm max
Readily oxidisable substances	Positive
Polycyclic acids	Positive
Loss on drying % (m/m)	1.5% max
Assay % (m/m)	99.0 – 100.5%
Analysing method	According to BP2017, EP9.0, USP38, NF33, FCC9
Particle size	Powder: 80% passed 40 – 80 mesh Prill: 90% passed 10 – 30 mesh little ball
<b>Further information</b>	
Antimicrobial Preservative for beverages, soft drinks, fruit juices, fruit preserves, jams, pie fillings, pickles, margarine, processed meat and fish. Anti-fermentation additive for wines, sugar juices, cider. Preservative for pharmaceutical products and in personal care.	
<b>NOTES</b>	
<b>Exclusion of Liability</b>	
Information contained in this publication is accurate to the best of the knowledge and belief of Tennants.	
Any information or advice obtained from Tennants otherwise than by means of this publication and whether relating to Tennants materials or other materials, is also given in good faith. However, it remains at all times the responsibility of the customer to ensure that Tennants materials are suitable for the particular purpose intended.	
Tennants accepts no liability whatsoever (except as otherwise provided by law) arising out of the use of information supplied, the application, adaptation or processing of the products described herein, the use of other materials in lieu of Tennants materials or the use of Tennants materials in conjunction with such other materials.	
<b>Health and Safety</b>	
A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on the handling precautions and emergency procedures. This must be consulted fully before handling, storage and use.	



PRODUCT: SODIUM BENZOATE (SOBE) REVISION: 7

DATED: 25/01/2022

PAGE 2 OF 6

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

#### 1.1 Product Identifier

Product Name Sodium Benzoate  
CAS Number 532-32-1  
EINECS Number 208-534-8  
REACH Registration Number 01-2119460683-35-XXXX

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

##### Identified use(s)

Formulation of washing and cleaning products. Formulation of pharmaceutical/cosmetics/personal care products.  
Formulation of adhesives and sealants.  
Formulation of powder coatings. Formulation of other coatings. Formulation of various products (FECC).

Consumer use of cosmetics/personal care products (COLIPA 17-19).

Uses advised against: No further information

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

Tennants Distribution Limited  
Hazelbottom Road  
Cheetham  
Manchester  
M8 0GR  
Tel: 44(0)161 205 4454  
Fax: 44(0) 161 203 4298  
Email: [msds@tennantsdistribution.com](mailto:msds@tennantsdistribution.com)

#### 1.4 Emergency telephone number

Tel: 44(0) 844 3350001 (24 hours)

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Serious eye damage/eye irritation Category 2A - (H319)

#### 2.2 Label elements

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

Hazard Pictogram



Signal word: Warning

##### Hazard statement(s)

H319 Causes serious eye irritation.

##### Precautionary statement(s)

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

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice/attention.

EU Specific Hazard Statements: None.

#### 2.3 Other hazards

No further relevant information

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

Name	CAS Number	EC Number	REACH Registration Number	Concentration	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium Benzoate	532-32-1	208-534-8	01-2119460683-35-XXXX	99.0% - 100.0%	Eye Irrit. 2A (H319)



**PRODUCT: SODIUM BENZOATE (SOBE) REVISION: 7**

**DATED: 25/01/2022**

**PAGE 3 OF 6**

<b>4. FIRST AID MEASURES</b>
<b>4.1 Description of first aid measures</b>
<b>General advice</b> Remove contaminated clothing and shoes. If symptoms persist, call a physician.
<b>Inhalation</b> IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
<b>Eye contact</b> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Skin contact</b> Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.
<b>Ingestion</b> Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>4.2 Most important symptoms and effects, both acute and delayed</b> Causes serious eye irritation.
<b>4.3 Indication of any immediate medical attention and special treatment needed</b> Treat symptomatically.
<b>5. FIRE FIGHTING MEASURES</b>
<b>5.1 Extinguishing Media</b> Suitable extinguishing media: Dry chemical, CO <sub>2</sub> , water spray, foam. Unsuitable extinguishing media: No information available
<b>5.2 Special hazards arising from the substance or mixture</b> Dust may form explosive mixture in air. Thermal decomposition can lead to release of irritating and toxic gases and vapours, such as carbon monoxide, carbon dioxide.
<b>5.3 Advice for fire-fighters</b> Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
<b>6. ACCIDENTAL RELEASE MEASURES</b>
<b>6.1 Personal precautions, protective equipment and emergency procedures</b> Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Use personal protection recommended in Section 8.
<b>6.2 Environmental precautions</b> Local authorities should be advised if significant spillages cannot be contained. Prevent entry into waterways, sewers, basements or confined areas.
<b>6.3 Methods and material for containment and cleaning up</b> Sweep up and shovel into suitable containers for disposal.
<b>6.4 Reference to other sections</b> See Section 7 for more information See section 8 for more information See section 13 for more information
<b>7. HANDLING AND STORAGE</b>
<b>7.1 Precautions for safe handling</b> Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use personal protection recommended in Section 8.
<b>7.2 Conditions for safe storage, including any incompatibilities</b> Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep locked up and out of reach of children. Store in accordance with local regulations.
<b>7.3 Specific end use(s)</b> Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.



**PRODUCT: SODIUM BENZOATE (SOBE) REVISION: 7**

DATED: 25/01/2022

PAGE 4 OF 6

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Limits**

No data available.

**Derived No Effect Level (DNEL)**

Inhalation Worker - inhalation, long-term - systemic 3 mg/m<sup>3</sup>

Worker - inhalation, long-term – local 0.1 mg/m<sup>3</sup>

General population - inhalation, long-term – systemic 1.5 mg/m<sup>3</sup>

General population - inhalation, long-term – local 0.06 mg/m<sup>3</sup>

Dermal Worker - dermal, long-term – systemic 62.5 mg/kg bw/day

General population - dermal, long-term – systemic 31.25 mg/kg bw/day

Oral General population - oral, long-term – systemic 16.6 mg/kg bw/day

**Predicted No Effect Concentration (PNEC)**

PNEC aqua (freshwater) 0.13 mg/L

PNEC aqua (marine water) 0.013 mg/L

PNEC aqua (intermittent releases) 305 µg/L

PNEC sediment (freshwater) 1.76 mg/kg sediment dw

PNEC sediment (marine water) 0.176 mg/kg sediment dw

PNEC STP 10 mg/L

PNEC soil 0.276 mg/kg soil dw

PNEC oral 300 mg/kg food

**Engineering Controls**

Showers. Eyewash stations. Ventilation systems. Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

**Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Hand Protection**

Wear protective gloves.

**Skin and body protection**

Suitable protective clothing.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

**Environmental exposure controls**

Avoid release to the environment.

**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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**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**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

Appearance	Solid
Colour	White
Odour	Odourless
Odour Threshold	Not determined



**PRODUCT: SODIUM BENZOATE (SOBE) REVISION: 7**

DATED: 25/01/2022

PAGE 5 OF 6

pH	Not determined
Melting point/freezing point	436 °C @ 1013hPa
Boiling point / boiling range	No boiling temperature, decomposes between 450-475°C
Flash point	Not applicable
Evaporation rate	Not determined
Flammability (solid, gas)	Non flammable
Flammability Limit in Air	Not applicable
Vapour Pressure	Not determined
Vapour density	Not applicable
Relative density	1.5 @ 20 °C
Water solubility	556 g/L
Partition coefficient (Log Pow)	1.88
Auto ignition temperature	Not applicable
Decomposition temperature	450-475°C
Kinematic viscosity	Not applicable
Dynamic viscosity	Not applicable
Explosive properties	Not an explosive
Oxidising properties	No oxidising properties
<b>9.2 Other information</b>	
No further information	
<b>10. STABILITY AND REACTIVITY</b>	
<b>10.1 Reactivity</b>	
No information available	
<b>10.2 Chemical stability</b>	
Stable under normal conditions	
<b>10.3 Possibility of hazardous reactions</b>	
Dust may form explosive mixture in air	
<b>10.4 Conditions to avoid</b>	
Heat, flames and sparks	
<b>10.5 Incompatible materials</b>	
Oxidising substances, acids, iron salts, moisture.	
<b>10.6 Hazardous decomposition products</b>	
Carbon monoxide, carbon dioxide.	
<b>11. TOXICOLOGICAL INFORMATION</b>	
<b>11.1 Information on toxicological effects</b>	
<b>Acute toxicity</b>	
LD50 Oral - rat - > 2000 mg/kg (rat)	
LD50 Dermal – rabbit - > 2000 mg/kg (rabbit)	
LD50 Inhalation – rat - > 12,200 mg/m <sup>3</sup> (rat)	
<b>Skin corrosion/irritation</b>	
Non-irritating to the skin	
<b>Serious eye damage/eye irritation</b>	
Causes serious eye damage	
<b>Sensitisation</b>	
Not sensitising.	
<b>Germ cell mutagenicity</b>	
Genotoxicity: negative.	
<b>Carcinogenicity</b>	
>578 g/kg (rat). NOAEL: 500 mg/kg bw/day.	
<b>Reproductive toxicity</b>	
NOAEL >=175 mg/kg. NOAEL: 500 mg/kg bw/day.	
<b>STOT - single exposure</b>	
Not classified.	
<b>STOT - repeated exposure</b>	
Not classified.	
<b>Aspiration hazard</b>	
Not classified.	



**PRODUCT: SODIUM BENZOATE (SOBE) REVISION: 7**

**DATED: 25/01/2022**

**PAGE 6 OF 6**

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Algae/aquatic plants EC50: >30.5 mg/L/72h *Pseudokirchnerella subcapitata*

LC50 Fish: 484 mg/L/96h *Pimephales promelas*

EC50 Crustacea: >100 mg/l/96 h *Daphnia magna*

### 12.2 Persistence and degradability

Readily biodegradable.

### 12.3 Bioaccumulative potential

Partition coefficient (Log Pow): 1.88

### 12.4 Mobility in soil

Not expected to adsorb on soil.

### 12.5 Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

### 12.6 Other adverse effects

No further information

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### Contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 14. TRANSPORT INFORMATION

Non – hazardous for road, sea and air transport.

## 15. REGULATORY INFORMATION

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

#### European Union

Component	EINECS/ELINCS	SVHC candidates	RESTRICTIONS - REACH TITLE VIII
Sodium Benzoate 532-32-1	X Listed in EINECS	-	-

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

#### International inventories

Component	TSCA	DSL/NDSL	ENCS	IECSC	KECL	PICCS	AICS
Sodium Benzoate 532-32-1	X	X Listed in DSL	X	X	X	X	X

"-" Not Listed "X" Listed

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this substance

## 16. OTHER INFORMATION

### Source of key data used to compile the data sheet

Supplier information

### Full text of H-Statements referred to under section 3

H319 - Causes serious eye irritation

### Modifications from last revision

Reference to BP98 removed.

Date: 25/01/2022

Copyright© Tennants Distribution Ltd (2022)