

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

Product Identifier:

Product:

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

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.

Company name:

Nexchem Ltd
Unit 3 Barshaw Park
Leycroft Road
Leicester
LE4 1ET
Tel: 0116 2311130
24/7 Emergency Tel: 0800 246 1274
Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

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)

SAFETY DATA SHEET

Sodium Benzoate

Issued: 26/01/2022

Page 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.

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% - 100%	Eye Irrit. 2A (H319)

4. FIRST AID MEASURES

Description of first aid measures:

General advice:

Remove contaminated clothing and shoes. If symptoms persist, call a physician.

Inhalation:

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.

Eye contact:

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.

Skin contact:

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.

Ingestion:

Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and delayed: Causes serious eye irritation.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

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SAFETY DATA SHEET

Sodium Benzoate

Issued: 26/01/2022

Page 3

5. FIRE-FIGHTING MEASURES

Extinguishing Media:

Suitable extinguishing media: Dry chemical, CO₂, water spray, foam.

Unsuitable extinguishing media: No information available.

Special hazards arising from the substance or mixture:

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.

Advice for fire-fighters: Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

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.

Environmental precautions: Local authorities should be advised if significant spillages cannot be contained. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up: Sweep up and shovel into suitable containers for disposal.

Reference to other sections: See Section 7 for more information.
See section 8 for more information.
See section 13 for more information.

7. HANDLING AND STORAGE

Precautions for safe handling: 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.

Conditions for safe storage, including any incompatibilities:

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.

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SAFETY DATA SHEET

Sodium Benzoate

Issued: 26/01/2022

Page 4

Specific end use(s): Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: No data available.

Derived No Effect Level (DNEL): Inhalation Worker - inhalation, long-term - systemic 3 mg/m³
Worker - inhalation, long-term – local 0.1 mg/m³
General population - inhalation, long-term – systemic 1.5 mg/m³
General population - inhalation, long-term – local 0.06 mg/m³
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.

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SAFETY DATA SHEET

Sodium Benzoate

Issued: 26/01/2022

Page 5

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

Information on basic physical and chemical properties:

Appearance:	Solid
Colour:	White
Odour:	Odourless
Odour Threshold:	Not determined
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
Other information:	No further information

10. STABILITY AND REACTIVITY

Reactivity:	No information available
Chemical stability:	Stable under normal conditions
Possibility of hazardous reactions:	Dust may form explosive mixture in air
Conditions to avoid:	Heat, flames and sparks
Incompatible materials:	Oxidising substances, acids, iron salts, moisture.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide.

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SAFETY DATA SHEET

Sodium Benzoate

Issued: 26/01/2022

Page 6

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity:	LD50 Oral - rat - > 2000 mg/kg (rat) LD50 Dermal – rabbit - > 2000 mg/kg (rabbit) LD50 Inhalation – rat - > 12,200 mg/m ³ (rat)
Skin corrosion/irritation:	Non-irritating to the skin
Serious eye damage/eye irritation:	Causes serious eye damage
Sensitisation:	Not sensitising.
Germ cell mutagenicity:	Genotoxicity: negative.
Carcinogenicity:	>578 g/kg (rat). NOAEL: 500 mg/kg bw/day.
Reproductive toxicity:	NOAEL >=175 mg/kg. NOAEL: 500 mg/kg bw/day.
STOT - single exposure:	Not classified.
STOT - repeated exposure:	Not classified.
Aspiration hazard:	Not classified.

12. ECOLOGICAL INFORMATION

Toxicity:	Algae/aquatic plants EC50: >30.5 mg/L/72h <i>Pseudokirchnerella subcapitata</i> LC50 Fish: 484 mg/L/96h <i>Pimephales promelas</i> EC50 Crustacea: >100 mg/l/96 h <i>Daphnia magna</i>
Persistence and degradability:	Readily biodegradable.
Bioaccumulative potential:	Partition coefficient (Log Pow): 1.88
Mobility in soil:	Not expected to adsorb on soil.
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).
Other adverse effects:	No further information.

13. DISPOSAL CONSIDERATIONS

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.

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SAFETY DATA SHEET

Sodium Benzoate

Issued: 26/01/2022

Page 7

15. REGULATORY INFORMATION

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

"-" Not Listed "X" Listed

Chemical Safety Assessment: A Chemical Safety Assessment has been carried out for this substance

Note: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

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.

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.