

CERTIFICATE OF ANALYSIS

Sodium Benzoate Granular

Chemical formula: $C_7H_5NaO_2$

Batch Number: 4558303

Best before date: October 2027

Country of origin: China

TEST	SPECIFICATION	RESULT
Appearance	White granule or crystalline powder, no savor or a bit benzoic savour	Passes
Assay	99 - 100.5 %	99.73%
Loss on drying	Max 1.5 %	1.28%
Heavy metals	Max 0.001 %	<0.02%
Chlorine	Max 0.03 %	<0.03%
Arsenic	Max 0.0003 %	<0.0003%
Readily Oxidisable Substances	Passes Test	Conforms
Acidity or Alkalinity	Passes Test	Conforms
Organic compounds (Chlorinated)	Max 0.06 w%	<0.06 w%
Polycyclic Acids	Passes Test	Conforms
Appearance of solution	Lighter than Y6	Conforms
Ionised Chlorine	Max 200 ppm, mg/kg	<200 ppm, mg/kg
Lead	Max 2 mg/kg, ppm	<2 ppm, mg/kg
Mercury	Max 1 mg/kg, ppm	<1 ppm, mg/kg
Alkalinity	Max 0.04 w%	<0.04 w%

When required, the original Certificate of Analysis unit of measurement will be converted appropriately, to reflect unit of measurement on the original specification.

Conversion example 0.0001% = 1ppm or 1mg/kg

MYSTIC MOMENTS

Allergen declaration

We hereby guarantee that sodium benzoate

Does not contain any allergens, (grains, crustaceans,
eggs, fish, mollusks, peanuts, soybeans, dairy products, nuts, celery, mustard,
sesame seeds, lupines, sulfur dioxide and sulfites.)

Date: April.14,2023

flow chart of sodium benzoate

flow chart for sodium benzoate in powder.

benzoic acid _____
neutralize, decolor (active carbon) → leach → dry and slice up → measure and pack
sodium hydroxide _____

flow chart for sodium benzoate in granular:

benzoic acid
sodium hydroxide _____
neutralize, decolor (active carbon) → leach → prill → sieving → measure and pack

flow chart for sodium benzoate in columnar:

benzoic acid _____
sodium hydroxide _____
neutralize → decolor (active carbon) → leach → extrude → drying → measure and pack

Country of origin: China

GMO Status Statement

Date: March 11, 2023

- *Regulation (EC) No.1829/2003 of the European Parliament and of the Council of 22 September 2003 on genetically modified food and feed*
- *Regulation (EC) No.1830/2003 of the European Parliament and of the Council of 22 September 2003 concerning traceability and labeling on genetically modified organisms and traceability of food and feed products produced from genetically modified organisms and amending Directive 2001/18/EC*

To whom it may concern,

According to above regulations, We, hereby certify that the product of Sodium benzoate we supplied to you is

Items	Yes/No	Remark
GMOs.	no	
containing or consisting of GMOs.	no	
produced from or containing ingredients produced from GMOs.	no	
needed to be labelled as Genetically Modified.	no	

**GMOs, genetically modified organisms.*

Sodium benzoate

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name: Sodium benzoate
REACH registration No.: 01-2119460683-35-0004
Producer: Tianjin dongda chemical group co.,ltd
CAS-Number: 532-32-1
EC-number: 208-534-8

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

General use: Chemical basic material

Identified uses: Industrial use:
For the production of detergent/Cleaning agent
For the production of cosmetics and Body care product
Use in adhesives and sealants
For the production of powder coating
For the production of Varnish
For the production of products

1.3 Details of the supplier of the safety data sheet

Company name: Madar Corporation Limited

19 - 20 Sandealth Industrial Estate

Fordingbridge

SP61PA

01425 655 555

technical@madarcorporation.co.uk

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Classification according to EC regulation 1272/2008 (CLP)

Eye Irrit. 2; H319 Causes serious eye irritation.

Classification according to directive 67/548/EEC

Xi; R36 Irritating to eyes.

2.2 Label elements**Labelling (CLP)**

Signal word:

Warning

Hazard statements:

H319

Causes serious eye irritation.

19-20 Sandealth Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK
Tel: 01425 655555 Email: technical@madarcorporation.co.uk

Sodium benzoate

Safety precautions: P264 Wash hands thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 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.

Labelling (67/548/EEC or 1999/45/EC)



Xi

irritant

R phrase(s): R 36 Irritating to eyes.
 S phrase(s): S (2) Keep out of the reach of children.
 S 25 Avoid contact with eyes.
 S 46 If swallowed, seek medical advice immediately and show this container or label.

2.3 Other hazards

Danger of dust explosion.

The percentage of ingredients(Sodium benzoate): 99.5%

CAS No.:532-32-1

SECTION 3: Composition / information on ingredients

3.1 Substances

Chemical characterization: C7 H5 Na O2 = C6H5COO * Na, Sodium benzoate

CAS-Number: 532-32-1
 EC-number: 208-534-8
 RTECS-Number: DH6650000
 Customs tariff number: 2916 31 00

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of inhalation: Provide fresh air.
 In case of skin contact: Wash with plenty of water. Change contaminated clothing. In case of skin reactions, consult a physician..
 After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of troubles or persistent symptoms, consult an ophthalmologist.
 After swallowing: Give affected person large quantities of water in small amounts and induce vomiting. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

In case of inhalation: Irritation to respiratory tract, cough.
 In case of ingestion: After ingestion of high quantities: gastrointestinal complaints
 After eye contact: Eye irritation, redness.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Sodium benzoate

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water, foam, extinguishing powder, carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Combustible. Danger of dust explosion.

In case of fire may be liberated: Sodium compounds, carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus.

Additional information:

Hazchem-Code: -

Do not allow fire water to penetrate into surface or ground water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe dust. Provide adequate ventilation. Wear personal protection equipment. Avoid generation of dust.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains.

6.3 Methods and material for containment and cleaning up

Avoid generation of dust.

Take up mechanically, placing in appropriate containers for disposal. Thoroughly clean surrounding area.

6.4 Reference to other sections

Refer additionally to chapter 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed.

Do not breathe dust. Avoid contact with eyes.

Wear personal protection equipment. Avoid generation of dust.

Precautions against fire and explosion:

Product may become electrostatically charged. Danger of dust explosion. Keep away from sources of ignition. - No smoking.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Store container tightly closed in a dry area.

storage temperature: 5 - 30 °C

Storage class:

11 = Combustible solids

7.3 Specific end use(s)

No information available.

Sodium benzoate

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Additional information: Contains no substances with occupational exposure limit values.

DNEL/DMEL: Systemic effects:
 DNEL workers, long-term, dermal: 62.5 mg/kg bw/d
 DNEL workers, long-term, inhalative: 3 mg/m³
 DNEL consumers, long-term, oral: 16.6 mg/kg bw/d
 DNEL consumers, long-term, dermal: 31.25 mg/kg bw/d
 DNEL consumers, long-term, inhalative: 1.5 mg/m³
 Local effects:
 DNEL consumers, long-term, inhalative: 0.06 mg/m³

PNEC: PNEC water (freshwater): 0.13 mg/L.
 PNEC water (marine water): 0.013 mg/L.
 PNEC water (intermittent release): 305 µg/L.
 PNEC sediment (freshwater): 1.76 mg/kg dw.
 PNEC sediment (marine water): 0.176 mg/kg dw.
 PNEC soil: 0.265 mg/kg dw.
 PNEC sewage treatment plant: 10 mg/L.
 Secondary poisoning: PNEC oral: 300 mg/kg feed.

8.2 Exposure controls

Dust should be exhausted directly at the point of origin.

Occupational exposure controls

Respiratory protection: In case of dust: Particulates filter P2 according to EN143.
 Hand protection: Protective gloves according to EN374.
 Glove material: nitrile rubber-Layer thickness: 0,11 mm
 Breakthrough time: >480 min.
 Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
 Eye protection: Tightly sealed goggles according to EN 166.
 Body protection: Wear suitable protective clothing.
 General protection and hygiene measures:
 Change contaminated clothing.
 After work, wash hands and face.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Physical state: solid, granulate or crystalline powder
 Colour: white
 Odour: odourless
 Odour threshold: no data available
 pH value: at 20 °C, 100 g/L: 7 -9
 Melting point/freezing point: 436 °C (OECD 102)
 Initial boiling point and boiling range: 465 - 475 °C (OECD 103)
 Flash point/flash point range: not applicable
 Evaporation rate: no data available
 Flammability: This product is non-flammable.

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Explosive properties:	not explosive
Explosion limits:	LEL (Lower Explosion Limit): 2.70 Vol-% UEL (Upper Explosive Limit): 5.20 Vol-%
Vapour pressure:	no data available
Vapour density:	no data available
Density:	1.5 g/cm ³ (OECD 109)
Solubility:	in ethanol 13.3 g/L
Water solubility:	at 20 °C: 556 g/L at 100 °C: 800g/L
Partition coefficient: n-octanol/water:	-2.27 log P(o/w) (calculated) Bio-accumulation is not to be expected (log P(o/w) <1).
Auto-ignition temperature:	no data available
Thermal decomposition:	no data available
Viscosity, dynamic:	no data available
Explosive properties:	not explosive
Oxidizing characteristics:	not oxidising

9.2 Other information

Ignition temperature:	> 500 °C (DIN51794)
Bulk density:	350 kg/m ³
Additional information:	Molecular weight: 144,11 g/mol Surface tension: 72,9 mN/m ² (20 °C, 1 g/L, OECD 115) Dissociation constant pKa: 4.03 at 20 °C (calculated).

SECTION 10: Stability and reactivity

10.1 Reactivity

hygroscopic

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Violent reaction with strong oxidizing agents and strong acids.

10.4 Conditions to avoid

Fine dust: Danger of dust explosion.

10.5 Incompatible materials

strong oxidizing agents, strong acids

10.6 Hazardous decomposition products

Thermal decomposition:	In case of fire may be liberated: Sodium compounds, carbon monoxide and carbon dioxide. no data available
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Sodium benzoate

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD50 Rat, oral: > 2000 mg/kg
 LD50 Rabbit, dermal: > 2000 mg/kg (read-across)
 LC50 Rat, inhalative: > 12.2 mg/L (read-across)

Toxicological effects:

Acute toxicity (oral): Based on available data, the classification criteria are not met.
 Acute toxicity (dermal): Based on available data, the classification criteria are not met.
 Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
 Skin corrosion/irritation: Based on available data, the classification criteria are not met.
 (Rabbit, OECD 404: Not an irritant)
 Eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.
 (Rabbit, OECD 405: slightly irritant)
 Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.
 Skin sensitisation: Based on available data, the classification criteria are not met.
 (human, Patch test: not sensitising)
 Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met. (Ames test, OECD 471: negative)
 Chromosomal aberrations mammalian cells: negative (OECD 475)
 Carcinogenicity: Based on available data, the classification criteria are not met.
 NOAEL Rat, oral: 1000 mg/kg bw/d
 Reproductive toxicity: Based on available data, the classification criteria are not met.
 effects on fertility:
 NOAEL Rat, oral: 500 mg/kg bw/d
 Developmental toxicity:
 NOAEL Rat, oral: 175 mg/kg bw/d
 Effects on or via lactation: Based on available data, the classification criteria are not met.
 Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.
 Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met. NOAEL Rat, oral 1000 mg/kg bw/d (OECD414)
 NOAEL Rabbit, dermal: 2500 mg/kg/d
 NOAEC Rat, inhalative: 250 mg/m³
 Aspiration hazard: Based on available data, the classification criteria are not met.

Other information:

Bioaccumulative potential: No indication of bioaccumulation potential.
 neurotoxicity:
 NOAEL offspring Rat (female), oral: 10000 mg/kg feed.

Symptoms

In case of inhalation: Irritation to respiratory tract, cough.
 In case of ingestion: After ingestion of high quantities: gastrointestinal complaints
 After eye contact: Eye irritation, redness.

Sodium benzoate

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Algae toxicity:
 Pseudokirchneriella subcapitata (green algae):
 EC50: >30.5= mg/L/72h
 NOEC: 6.5 mg/L/72 h (OECD 201)
 Acute Daphnia toxicity:
 EC50 Daphnia magna (Big water flea): >100 mg/L/96h (OECD 202)
 Fish toxicity:
 LC50 Pimephales promelas (fathead minnow): 484 mg/L/96h (EPA OPP 72-1)
 NOEC Brachydanio rerio (zebra-fish): 10 mg/L/144 h
 Bacterial toxicity:
 NOEC Achromobacter sp.: >100 mg/L/168 h

12.2. Persistence and degradability

Further details: Biodegradation: 88 %/28 d (activated sludge)
 Product is readily biodegradable.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
 -2.27 log P(o/w) (calculated)
 Bio-accumulation is not to be expected (log P(o/w) <1).

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects

General information: Do not allow to penetrate into soil, waterbodies or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 07 01 99 = Wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals.
 MFSU = manufacture, formulation, supply and use

Recommendation: Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.
 Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number

not applicable

Sodium benzoate

14.2 UN proper shipping name

ADR/RID, IMDG, IATA: Not restricted

14.3 Transport hazard class(es)

not applicable

14.4 Packing group

not applicable

14.5 Environmental hazards

Marine pollutant: No

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

14.8 IMDG/IMO: Not regulated

SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code: -

National regulations - EC member states

Labelling of packaging with <= 125mL content



Signal word:

Warning

Hazard statements:

not applicable

Safety precautions:

not applicable

National regulations - USA

TSCA Inventory: listed

TSCA HPVC: not listed

Hazard rating systems:

NFPA Hazard Rating:

Health: 1 (Slight)

Fire: 1 (Slight)

Reactivity: 0 (Minimal)

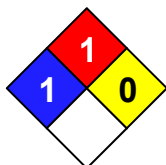
HMIS Version III Rating:

Health: 1 (Slight)

Flammability: 1 (Slight)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor



HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0
	X

National regulations - Canada

DSL: listed

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has been carried out.

Sodium benzoate

SECTION 16: Other information

Further information

Date of second version: 2022-07-01

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

SPECIFICATION

Sodium Benzoate Granular

DESCRIPTION

Synonyms	Benzoic acid, Sodium salt; Sodium benzoate
Appearance	White granule or crystalline powder, no savor or a bit benzoic savour
Molecular weight	144.11
CAS No.	532-32-1
Colour (Co-Pt)	20
Appearance of solution	Lighter than Y6
Packaging	25kg plastic-woven bags or kraft paper bag
Storage	Store in shady, cool and dry place
Country of origin	China
Ingredients	Sodium Benzoate
Shelf life	24 months
Formula (Molecular)	C ₇ H ₅ NaO ₂

SPECIFICATIONS

Assay	99 - 100.5 %
Loss on drying	Max 1.5 %
Heavy metals	Max 0.001 %
Chloride (Cl)	Max 0.02 %
Chlorine	Max 0.03 %
Arsenic	Max 0.0003 %
Readily Oxidisable Substances	Passes Test
Acidity or Alkalinity	Passes Test
Organic compounds (Chlorinated)	Max 0.06 w%
Polycyclic Acids	Passes Test
Ionised Chlorine	Max 200 ppm, mg/kg
Lead	Max 2 mg/kg, ppm
Mercury	Max 1 mg/kg, ppm
Alkalinity	Max 0.04 w%
Melting Range (for Benzoic Acid)	121.5 - 123.5 °
Test for Benzoate	Pass Test
Test for Sodium	Pass test
Solubility	Freely soluble in water, sparingly soluble in ethanol

STATEMENT

NON IRRADIATION / NON IONIZED/RADIOLOGICAL

According to the supplier, this product is non-irradiated, non-ionized and doesn't contain any radiological contamination.

GMO STATEMENT

According to the supplier, this product does not contain any genetically modified ingredients or processing aids.

DFI-065919V06

STATEMENT - Continued

BSE/TSE Statement

According to the supplier, this product does not contain BSE or TSE.

ALLERGEN	Present
Cereals containing Gluten (i.e wheat, rye, barley, oats, kamut or their hybridised strains) and products thereof	NO
Crustaceans and products thereof	NO
Eggs and products thereof	NO
Fish and products thereof	NO
Peanuts and products thereof	NO
Soybeans and products thereof	NO
Milk and products thereof (including lactose)	NO
Nuts i.e. Almond (<i>Amygdalus communis</i> L.), Hazelnut (<i>Corylus avellana</i>), Walnut (<i>Juglans regia</i>), Cashew (<i>Anacardium occidentale</i>), Pecan nut (<i>Carya illinoensis</i> (Wangenh) K. Koch), Brazil nut (<i>Bertholletia excelsa</i>), Pistachio nut (<i>Pistacia vera</i>), Macadamia nut and Queensland nut (<i>Macadamia ternifolia</i>) and products thereof	NO
Celery and products thereof	NO
Mustard and products thereof	NO
Sesame seeds and products thereof	NO
Sulphur dioxide and sulphites at concentrations of more than 10mg/kg or 10mg/litre expressed and SO ₂	NO
Lupin and products thereof	NO
Molluscs and products thereof	NO

DIETARY	Suitable
Vegetarian	YES
Vegans	YES
Orthodox Jewish Diet (Kosher Certified)	YES
Muslim Diet (Halal Certified)	YES

VEGAN STATEMENT

WE, HEREBY CERTIFY THAT OUR PRODUCT SODIUM BENZOATE
DOES NOT CONTAIN
ANY ANIMAL-DERIVED INGREDIENTS AND THEREFORE QUALIFIES AS
VEGAN FOOD ,FURTHERMORE ,OUR PROCESSING METHODS DO
NOT INCLUDE THE USE OF ANIMAL PRODUCTS, OUR PRODUCTION AND
R&D DO NOT INCLUDE ANY ANIMAL EXPERIMENT.

THANK YOU

DATE : March 10th, 2023