

**TIANJIN DONGDACHEMICAL GROUP CO., LTD**  
No. 21 Gangda Road, Nangang industrial Zone, TEDA, Tianjin, China  
**Tel: 86-22-25386515 Fax:86-22-25385362**

**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006 and Regulation (EU) No 453/2010  
(REACH)

Sodium benzoate

**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  
Synonyms: Sodium benzoic acid, Benzoic acid sodium salt  
CAS: 532-32-1  
CE. 208-534-8

**1.2 Relevant identified uses of 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:TIANJIN DONGDA CHEMICAL GROUP CO., LTD.  
Adress:No. 21 Gangda Road, Nangang industrial Zone, TEDA, Tianjin, China  
Tel: 86-22-25386515 Fax:86-22-25385362

**1.4 Emergency telephone number:**

GIZ-Nord, Germany, Telephone: +49 (0)551-19240

**2. HAZARD IDENTIFICATION**

**2.1 Classification of the substance or mixture**

**Classification according to regulation EC 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)**

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Signal word: **Warning**

Hazard statements: H319 - Causes serious eye irritation

Precautionary statements: 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)**



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.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Chemical characterization:  $C_7H_5NaO_2 = C_6H_5COO * Na$ , Sodium benzoate

CAS-Number: 532-32-1

EC-number: 208-534-8

RTECS-Number: DH6650000

Customs tariff number: 2916 31 00

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**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.

**5. FIRE-FIGHTING MEASURES**

**5.1 Extinguishing media**

Water, foam, extinguishing powder, carbon dioxide.

**5.2 Special hazard 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.

**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 Method for clearing up or taking 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.

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**7. HANDLING AND STORAGE**

**7.1 Precaution 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):**

Not applicable.

**8. EXPOSURE CONTROLS AND 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/m<sup>3</sup>

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/m<sup>3</sup>

Local effects:

DNEL consumers, long-term, inhalative: 0.06 mg/m<sup>3</sup>

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.

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#### 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 EN 143.

Hand protection: Protective gloves according to EN 374.

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.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

##### 9.1 Information on basic physical and chemical properties:

- Appearance: Physical state: solid, granulate or crystalline powder
- Color: white
- Odor: odourless
- Odour threshold: not established.
- PH: 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: Not applicable
- Flammability (solid, gas): This product is non-flammable.
- Evaporation rate: no data available
- 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
- Relative vapour density at 20 ° C: no data available.
- Density: 1.5 g/cm<sup>3</sup> (OECD 109)
- Solubility: in ethanol 13.3 g/L
- Water solubility:
  - at 20 ° C: 556 g/L; at 100 ° C: 800 g/L
- Partition coefficient:
  - n-octanol/water: -2.27 log P(o/w) (calculated)

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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 (DIN 51794)

Bulk density: 350 kg/m<sup>3</sup>

Additional information: Molecular weight: 144,11 g/mol

Surface tension: 72,9 mN/m<sup>2</sup> (20 ° C, 1 g/L, OECD 115)

Dissociation constant pKa: 4.03 at 20 ° C (calculated).

**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 Condition to avoid**

Fine dust: Danger of dust explosion.

**10.5 Incompatible materials**

strong oxidizing agents, strong acids

**10.6 Hazardous decomposition products**

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

Thermal decomposition: no data available

**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

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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 (OECD 414)

NOAEL Rabbit, dermal: 2500 mg/kg/d

NOAEC Rat, inhalative: 250 mg/m<sup>3</sup>

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.

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Aquatic toxicity:

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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 Bioaccumulation 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.

**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.



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**14. TRANSPORT INFORMATION**

**14.1 UN number**

not applicable.

**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

**15. Regulatory information**

**15.1 Safety, health and environment 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
FLAMMABILITY	1
PHYSICAL HAZARD	0
	X

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Health: 1 (Slight)

Flammability: 1 (Slight)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

**National regulations - Canada**

DSL: listed

**15.2 Chemical Safety Assessment**

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

**16. OTHER INFORMATION**

**Further information**

Date of first version: 2022.01.01

**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.