Sodium Benzoate

Safety Data Sheet

according to the United Nations GHS (Rev. 7, 2017)

Issue date:24/08/2020 Revision date: 24/08/2020 : Version: 1.0

SECTION 1: Identification

1.1. GHS Product identifier

Product form	:	Substance
Trade name	:	Sodium Benzoate
EC-No.	:	208-534-8
CAS-No.	:	532-32-1
CSCL No.	:	(3)-1293;(3)-1272;(3)-1076
ISHL No.	:	(3)-1293;(3)-1272;(3)-1076
KECI-No.	:	KE-02711
Formula	:	C7H6O2.Na

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended uses and restrictions	:	No information available
Recommended use	:	Preservative in medicine, food, feed, mordant in dye industry, plasticizer in plastic industry, and also used as intermediate in organic synthesis such as spices

1.4. Supplier's details

Supplier

Wuhan Youji Industries Co., Ltd

No.1, 2nd Chemical Rd., Wuhan Chemical Industry Park, Wuhan, China

430082

F +86-027-83832423

organic@chinaorganic.com - http://www.chinaorganic .com

1.5. Emergency phone number

Emergency number : +86-027-83412982

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Serious eye damage/eye irritation, Category 2A H319

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects : Causes serious eye irritation.

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN) :

GHS07

Signal word (GHS UN)	:	Warning
Hazard statements (GHS UN)	:	H319 - Causes serious eye irritation
Precautionary statements (GHS UN)	:	P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing 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.

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : No information available, No information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance identification codes: See section 1.1

Name	Product identifier	%
Sodium benzoate	(CAS-No.) 532-32-1	≥ 99.2
Phthalic acid	(CAS-No.) 88-99-3	≤ 0.4
Sulfate	-	≤ 0.3
Biphenyls (biphenyl and methyl biphenyl)	-	≤ 0.3

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : Remove contaminated clothing and shoes. If symptoms persist, call a physician.

First-aid measures after 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.

First-aid measures after 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.

First-aid measures after 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.

First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after eye contact : Eye irritation.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

Unsuitable extinguishing media : No information available.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Dust may form explosive mixture in air. Thermal decomposition can lead to release of irritating and toxic gases and vapors, such as carbon monoxide, carbon dioxide.

5.3. Special protective actions for fire-fighters

Precautionary measures fire : Eliminate all ignition sources if safe to do so. Wear personal protective equipment. Keep upwind.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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/vapors/spray. Use personal protection recommended in Section 8.

6.1.1. For non-emergency personnel

Protective equipment : Wear proper protective equipment.

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Stop leak if safe to do so. Evacuate personnel to a safe area.

6.2. Environmental precautions

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

6.3. Methods and materials for containment and cleaning up

For containment : Sweep or shovel spills into appropriate container for disposal.

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use personal protection recommended in Section 8.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Showers. Eyewash stations. Ventilation systems. Ensure adequate ventilation, especially in confined areas.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Protective gloves

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	:	Solid
Appearance	:	White powder or granules
Colour	:	White.
Odour	:	Odorless or slightly benzoin smell
Odour threshold	:	Not available
Melting point	:	436 °C（1013hPa）
Freezing point	:	Not applicable
Boiling point	:	No boiling temperature decomposes between 450-475℃
Flammability (solid, gas)	:	Non flammable.
Explosive limits	:	Not applicable
Lower explosive limit (LEL)	:	Not applicable
Upper explosive limit (UEL)	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	450-475℃
pH	:	Not available
pH solution	:	Not available
Viscosity, kinematic (calculated value) (40 °C)	:	Not applicable
Partition coefficient n-octanol/water (Log Pow)	:	1.88
Vapour pressure	:	Not available
Vapour pressure at 50 °C	:	Not available
Density	:	Not applicable

Relative density	:	1.5 （20℃）
Relative vapour density at 20 °C	:	Not applicable
Solubility	:	Water: 556 g/l
Explosive properties	:	Not an explosive
Oxidizing properties	:	No oxidizing properties

9.2. Data relevant with regard to physical hazard classes (supplemental)
No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Dust may form explosive mixture in air.

10.4. Conditions to avoid
Heat. sparks. flames.

10.5. Incompatible materials
Oxidizing substances, acids, iron salts, moisture.

10.6. Hazardous decomposition products
Carbon dioxide (CO2). carbon monoxide.

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified

Sodium benzoate (532-32-1)	
LD50 oral rat	＞2000 mg/kg
LD50 dermal rabbit	＞2000 mg/kg
LC50 inhalation rat	＞12200 mg/m³

Phthalic acid (88-99-3)	
LD50 oral rat	7.9 g/kg

Skin corrosion/irritation	:	Not classified
Serious eye damage/irritation	:	Causes serious eye irritation
Respiratory or skin sensitisation	:	Not sensitizing
Germ cell mutagenicity	:	Not classified,Genotoxicity: negative.
Carcinogenicity	:	Not classified,Carcinogenicity : > 578 g/kg (rat). NOAEL: 500 mg/kg bw/day.
Reproductive toxicity	:	Not classified,NOAEL >=175 mg/kg. NOAEL: 500 mg/kg bw/day.
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified

SECTION 12: Ecological information
12.1. Toxicity
Ecology - general	:	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	:	Not classified
Hazardous to the aquatic environment, long-term (chronic)	:	Not classified

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
Sodium Benzoate (CAS #: 532-32-1)	>30.5 mg/L/72h Pseudokirchnerella subcapitata	484 mg/L/96h Pimephales promelas	>100 mg/l/96 h Daphnia magna

12.2. Persistence and degradability

Sodium Benzoate (532-32-1)	
Persistence and degradability	No additional information available

12.3. Bioaccumulative potential

Sodium Benzoate (532-32-1)	
Bioaccumulative potential	Log Pow: 1.88

12.4. Mobility in soil

Sodium Benzoate (532-32-1)	
Mobility in soil	No additional information available

12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with IMDG / IATA / UN RTDG

UN RTDG	IMDG	IATA
14.1. UN number		
Not regulated for transport		
14.2. UN Proper Shipping Name		
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No

14.6. Special precautions for user

- UN RTDG

No data available

- IMDG
No data available

- IATA
No data available

14.7. Transport in bulk according to IMO instruments
Not applicable

SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations specific for the product in question

Regulatory reference	:	Listed on the AICS (Australian Inventory of Chemical Substances). Listed on the Canadian DSL (Domestic Substances List). Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China). Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances). Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory. Listed on the Japanese ISHL (Industrial Safety and Health Law). Listed on KECL/KECI (Korean Existing Chemicals Inventory). Listed on NZIoC (New Zealand Inventory of Chemicals). Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances). Listed on the United States TSCA (Toxic Substances Control Act) inventory. Listed on INSQ (Mexican National Inventory of Chemical Substances). Listed on the TCSI (Taiwan Chemical Substance Inventory).
State or local regulations	:	U.S. - Texas - Effects Screening Levels - Long Term. U.S. - Texas - Effects Screening Levels - Short Term.

SECTION 16: Other information

Issue date	:	24/08/2020
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Data sources	:	Loli.
Abbreviations and acronyms	:	ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road EC50 - Median effective concentration IATA - International Air Transport Association IMDG - International Maritime Dangerous Goods LC50 - Median lethal concentration LD50 - Median lethal dose RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

Full text of H-statements:	
H319	Causes serious eye irritation

SDS UN

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.