



SAFETY DATA SHEET SODIUM BENZOATE

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	SODIUM BENZOATE
Product number	S71
CAS number	532-32-1
EC number	208-534-8

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

Identified uses	Feed additive. Food additive. (E211)
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Supplier	Norkem Limited, Norkem House, Bexton Lane, Knutsford, Cheshire, WA16 9FB. UK. T: + 44 (0)1565 755550 F: + 44 (0)1565 755496 datasheet@norkem.com
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1.4. Emergency telephone number

Emergency telephone	T: 01270 502891 (English-language only response)
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Eye Irrit. 2 - H319
Environmental hazards	Not Classified

2.2. Label elements

EC number	208-534-8
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Pictogram



Signal word	Warning
Hazard statements	H319 Causes serious eye irritation.

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Precautionary statements	P264 Wash contaminated skin 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.
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2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.1. Substances

Product name	SODIUM BENZOATE
CAS number	532-32-1
EC number	208-534-8
Composition comments	Purity > 99.0 % w/w

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Get medical attention if any discomfort continues. Do not induce vomiting.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
Eye contact	Rinse with water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Coughing.
Ingestion	Nausea, vomiting. Stomach pain.
Skin contact	Redness.
Eye contact	Causes serious eye irritation. Redness. Pain.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.
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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO ₂). Oxides of the following substances: Sodium.
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5.3. Advice for firefighters

Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid inhalation of dust. Provide adequate ventilation. Dust may form explosive mixture with air. Eliminate all sources of ignition. Take precautionary measures against static discharges.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Avoid generation and spreading of dust. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water.

6.4. Reference to other sections

Reference to other sections For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Use mechanical ventilation if there is a risk of handling causing formation of airborne dust. Dust may form explosive mixture with air. Eliminate all sources of ignition. Take precautionary measures against static discharge.

Advice on general occupational hygiene Do not eat, drink or smoke when using this product. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Take off contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Use explosion-proof electrical equipment. Protect from moisture. The substance is hygroscopic and will absorb water by contact with the moisture in the air.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Ingredient comments No exposure limits known for ingredient(s).

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Use mechanical ventilation if there is a risk of handling causing formation of airborne dust.

Eye/face protection

The following protection should be worn: Dust-resistant, chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

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Hand protection	Wear protective gloves. To protect hands from chemicals, gloves should comply with European Standard EN374. For exposure up to 8 hours, wear gloves made of the following material: Nitrile rubber. Neoprene. Polyvinyl chloride (PVC). Viton rubber (fluoro rubber).
Other skin and body protection	Provide eyewash station. Wear apron or protective clothing in case of contact.
Respiratory protection	No specific recommendations. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m ³ . Wear a respirator fitted with the following cartridge: Particulate filter, type P2. Particulate filters should comply with European Standard EN143.
Environmental exposure controls	Do not discharge into drains or watercourses or onto the ground.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Powder. Prills.
Colour	White.
Odour	Sweetish.
Odour threshold	Not applicable.
pH	pH (diluted solution): ~ 9 @ 100 g/l; 20°C
Melting point	REACH dossier information. 436°C . OECD 102.
Initial boiling point and range	Endpoint waived according to REACH Annex VII, IX or XI. See decomposition.
Flash point	> 100°C CC (Closed cup),. DIN 51758
Evaporation rate	Not applicable.
Flammability (solid, gas)	The product is not flammable.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 30 g/m ³
Vapour pressure	Endpoint waived according to REACH Annex VII, IX or XI. Unjustified as the melting point > 300°C.
Relative density	REACH dossier information. 1.5 @ 20°C . OECD 109.
Solubility(ies)	Soluble in water. 556 g/l water @ 20°C
Partition coefficient	REACH dossier information. Estimated value. log Kow: 1.88
Auto-ignition temperature	> 500°C
Decomposition Temperature	REACH dossier information. > 450 - < 475°C . OECD 103.
Viscosity	Not applicable.
Explosive properties	There are no chemical groups present in the product that are associated with explosive properties.
Oxidising properties	There are no chemical groups present in the product that are associated with oxidising properties.

9.2. Other information

Molecular weight	144.1
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not applicable. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Water, moisture. The substance is hygroscopic and will absorb water by contact with the moisture in the air.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Acids. Iron salts.

10.6. Hazardous decomposition products

Hazardous decomposition products Oxides of the following substances: Carbon. Sodium.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) REACH dossier information. LD₅₀ 2100 mg/kg, Oral, Rat . Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) REACH dossier information. LD₅₀ > 2000 mg/kg, Dermal, Rabbit . Read-across data. Benzoic acid. Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) REACH dossier information. LC₅₀ (4h) > 12.2 mg/l, Inhalation, Rat . Read-across data. Benzoic acid. Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data REACH dossier information. Not irritating. OECD 404. Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Skin sensitisation

Skin sensitisation REACH dossier information. Local Lymph Node Assay (LLNA) - Mouse: Not sensitising. Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro REACH dossier information. Gene mutation: Negative. OECD 471. Based on available data the classification criteria are not met.

Genotoxicity - in vivo

REACH dossier information. Chromosome aberration: Negative. OECD 475. Based on available data the classification criteria are not met.

Carcinogenicity

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Carcinogenicity	REACH dossier information. NOAEL > 1000 mg/kg/day, Oral, Rat . No evidence of carcinogenicity in animal studies. Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Reproductive toxicity - development	REACH dossier information. Developmental toxicity: - NOAEL: 175 mg/kg/day, Oral, Rat . Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	REACH dossier information. NOAEL 1000 mg/kg/day, Oral, Rat . Based on available data the classification criteria are not met.
<u>Aspiration hazard</u>	
Aspiration hazard	Not relevant.
General information :	
Inhalation	Dust in high concentrations may irritate the respiratory system.
Ingestion	May cause discomfort if swallowed.
Skin contact	Powder may irritate skin.
Eye contact	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

SECTION 12: Ecological Information

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity REACH dossier information. Based on available data the classification criteria are not met.

Acute toxicity - fish LC₅₀, 96 hours: 484 mg/l, Pimephales promelas (Fat-head Minnow)
EPA OPP 72-1.

Acute toxicity - aquatic invertebrates EC₅₀, 96 hours: > 100 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: > 30 mg/l, Pseudokirchneriella subcapitata
OECD 201.

Chronic toxicity - fish early life stage NOEC, 6 day: 10 mg/l, Brachydanio rerio (Zebra Fish)

12.2. Persistence and degradability

Persistence and degradability Expected to be readily biodegradable.

Biodegradation Water and sediment - Degradation 85%: @ 28 days
OECD 301.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation of this product is not expected to occur.

Partition coefficient REACH dossier information. Estimated value. log Kow: 1.88

12.4. Mobility in soil

Mobility The product is soluble in water.

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Adsorption/desorption coefficient Expected to have a low potential for adsorption.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

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Guidance Introduction to Local Exhaust Ventilation HS(G)37.
Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information The following information is provided to conform with article 13 of the EC Directive on Packaging and Packaging Waste 94/62/EC:

- Wherever possible we use returnable packaging and pallets. Details of these are on our Sales Contracts
- For any non-returnable packaging the cost of disposal is at your expense, but we do have a list of reprocessors available
- In most cases, but not all, we are able to supply products in returnable packaging but the additional cost of this will be for the customer's expense. Please ask for details with your specific requirements
- Any products supplied in returnable packaging is clearly marked to this effect.

Key literature references and sources for data European Chemicals Agency, <http://echa.europa.eu/> - REACH disseminated dossier. International Chemical Safety Card, www.inchem.org. Institute for Occupational Safety and Health of the German Social Accident Insurance (AFI), GESTIS Substance database; www.dguv.de/ifa/gestis-database. OECD SIDS Initial Assessment Report for Benzoates, 2001.

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Revision 5

Supersedes date 11/12/2014

Hazard statements in full H319 Causes serious eye irritation.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.