

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

BENZOIC ACID VEOVITALL / BAG 25 KG FE

Version 2.0

Print Date 19.11.2019

Revision date / valid from 10.12.2018

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

Trade name : BENZOIC ACID VEOVITALL / BAG 25 KG FE
Substance name : Benzoic acid
CAS-No. : 65-85-0
EC-No. : 200-618-2

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

Use of the Substance/Mixture : feed additive
Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : Brenntag Nordic Oy
Äyritie 16
FI 01510 Vantaa
Telephone : +358 9 5495 640
Telefax : +358 9 5495 6411
E-mail address : SDS.FI@brenntag-nordic.com

1.4. Emergency telephone number

Emergency telephone number : In case of personal injury call:
Denmark: 82 12 12 12 Giftlinien, Bispebjerg Hospital
Finland: Poison Information Centre: (09) 471 977 (direct) or (09) 47 11 (exchange), open 24h/day
Norway: 22 59 13 00 Giftinformasjonen (døgnet)pent
Sweden: +46-8-331231 Giftinformationscentralen (24 hour service)
Outside these countries: Please call your local emergency services

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

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008

BENZOIC ACID VEVOVITALL / BAG 25 KG FE



Hazard class	Hazard category	Target Organs	Hazard statements
Skin irritation	Category 2	---	H315
Serious eye damage	Category 1	---	H318
Specific target organ toxicity - repeated exposure (Inhalation)	Category 1	Lungs	H372

For the full text of the H-Statements mentioned in this Section, see Section 16.

Most important adverse effects

Human Health	:	Causes damage to the kidneys/ liver/ eyes/ brain/ respiratory system/ central nervous system through prolonged or repeated exposure if inhaled. Causes skin irritation. Causes serious eye damage.
Physical and chemical hazards	:	Stable under normal conditions.
Potential environmental effects	:	According to available data, this product is not harmful to the environment.

2.2. Label elements**Labelling according to Regulation (EC) No 1272/2008**

Hazard symbols	:	 
Signal word	:	Danger
Hazard statements	:	H315 Causes skin irritation. H318 Causes serious eye damage. H372 Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.
Precautionary statements	:	
Prevention	:	P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response	:	P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove

BENZOIC ACID VEVOVITALL / BAG 25 KG FE

P314

contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Get medical advice/ attention if you feel unwell.

Hazardous components which must be listed on the label:

- Benzoic acid

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

SECTION 3: Composition/information on ingredients**3.1. Substances**

		Classification (REGULATION (EC) No 1272/2008)	
Hazardous components	Amount [%]	Hazard class / Hazard category	Hazard statements
Benzoic acid			
Index-No. : 607-705-00-8	100	Skin Irrit.2	H315
CAS-No. : 65-85-0		Eye Dam.1	H318
EC-No. : 200-618-2		STOT RE1	H372

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures**

General advice	: Take off all contaminated clothing immediately.
If inhaled	: Move to fresh air. If symptoms call a physician.
In case of skin contact	: Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. Remove contact lenses. Consult an eye specialist immediately.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately. If a person

BENZOIC ACID VEVOVITALL / BAG 25 KG FE

vomits when lying on his back, place him in the recovery position.

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

Symptoms : See Section 11 for more detailed information on health effects and symptoms.

Effects : See Section 11 for more detailed information on health effects and symptoms.

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

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media : Water spray, foam, dry powder or CO₂.

Unsuitable extinguishing media : High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : Incomplete combustion may form toxic pyrolysis products.

Hazardous combustion products : Carbon monoxide, Carbon dioxide (CO₂)

5.3. Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.

Further advice : Dust may form explosive mixture in air. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment. Keep away unprotected persons. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin and eyes. Do not breathe dust. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).

6.2. Environmental precautions

BENZOIC ACID VEVOVITALL / BAG 25 KG FE

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil. In case of large spillage contact the local authority.

6.3. Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up : Use mechanical handling equipment. Keep in suitable, closed containers for disposal.

Further information : Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Advice on safe handling : Keep container tightly closed. Ensure adequate ventilation. Avoid dust formation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe dust. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container.

Advice on protection against fire and explosion : Combustible material; Dust may form explosive mixture in air. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Further information on storage conditions : Keep tightly closed in a dry and cool place.

Advice on common storage : Keep away from food, drink and animal feedingstuffs. Do not store together with oxidizing and self-igniting products.

Storage temperature : < 25 °C

7.3. Specific end use(s)

Specific use(s) : No information available.

BENZOIC ACID VEVOVITALL / BAG 25 KG FE**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Other Occupational Exposure Limit Values**

(Additional) : Contains no substances with occupational exposure limit values.
Information

8.2. Exposure controls**Appropriate engineering controls**

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment*Respiratory protection*

Advice : Required, if exposure limit is exceeded (e.g. OEL).
Respirator must be worn if exposed to dust.
Respiratory protection complying with EN 141.
Particle filter:P2
Particle filter:P3

Hand protection

Advice : Protective gloves complying with EN 374.
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.
Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Protective gloves should be replaced at first signs of wear.

Material : polychloroprene
Break through time : ≥ 8 h
Glove thickness : 0,5 mm

Material : Nitrile rubber
Break through time : ≥ 8 h
Glove thickness : 0,35 mm

Material : butyl-rubber
Break through time : ≥ 8 h
Glove thickness : 0,5 mm

Material : Fluorinated rubber
Break through time : ≥ 8 h

BENZOIC ACID VEVOVITALL / BAG 25 KG FE

Glove thickness : 0,4 mm

Material : Polyvinylchloride
Break through time : ≥ 8 h
Glove thickness : 0,5 mm

Eye protection

Advice : Safety glasses with side-shields conforming to EN166

Skin and body protection

Advice : Wear personal protective equipment.

Environmental exposure controls

General advice : The product should not be allowed to enter drains, water courses or the soil.
In case of large spillage contact the local authority.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form : flakes
Colour : white
Odour : characteristic
Odour Threshold : no data available
pH : 3,1 (1 g/l)
Melting point/range : 121,5 - 122,5 °C
Boiling point/boiling range : 249 °C (1013 hPa)
Flash point : 121 °C (closed cup)
Evaporation rate : no data available
Flammability (solid, gas) : no data available
Upper explosion limit : no data available
Lower explosion limit : no data available
Vapour pressure : no data available
Relative vapour density : no data available

BENZOIC ACID VEVOVITALL / BAG 25 KG FE

Density	: 1,32 g/cm ³
Water solubility	: 2,9 g/l (25 °C)
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: 571 °C
Thermal decomposition	: no data available
Viscosity, dynamic	: Not applicable
Explosivity	: Product is not explosive. Dust can form an explosive mixture in air.
Oxidizing properties	: not oxidising

9.2. Other information

Molecular weight	: 122,12 g/mol
Bulk density	: 540 kg/m ³

SECTION 10: Stability and reactivity**10.1. Reactivity**

Advice	: No information available.
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10.2. Chemical stability

Advice	: No decomposition if stored and applied as directed. No further information available.
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10.3. Possibility of hazardous reactions

Hazardous reactions	: No information available.
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10.4. Conditions to avoid

Conditions to avoid	: No information available.
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10.5. Incompatible materials

Materials to avoid	: Gives off hydrogen by reaction with metals. Strong oxidizing agents, Strong bases, Reducing agents
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10.6. Hazardous decomposition products

Hazardous decomposition products	: No information available.
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SECTION 11: Toxicological information**11.1. Information on toxicological effects**

BENZOIC ACID VEVOVITALL / BAG 25 KG FE

Component:	Benzoic acid	CAS-No. 65-85-0
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Acute toxicity**Oral**

LD50 Oral	:	2565 mg/kg (Rat, male and female) (OECD Test Guideline 401)
LD50 Oral	:	2742 mg/kg (Rat, male) (OECD Test Guideline 401)
LD50 Oral	:	2360 mg/kg (Rat, female) (OECD Test Guideline 401)
LD50 Oral	:	2250 mg/kg (Mouse, male and female) (OECD Test Guideline 401)

Inhalation

LC50	:	> 12,2 mg/l (Rat, male and female; 4 h; dust/mist)
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Dermal

LD50	:	> 2000 mg/kg (Rabbit, male and female)
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Irritation**Skin**

Result	:	Irritating to skin. (Guinea pig)
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Eyes

Result	:	corrosive effects (Rabbit) (OECD - Guideline 405)
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Sensitisation

Result	:	not sensitizing (Local lymph node test; Guinea pig)
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CMR effects**Carcinogenicity**

NOEL	:	> 1.000 mg/kg bw/day (No negative effects., Rat, male and female)(Oral; 1 or 2 %)
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CMR Properties

Carcinogenicity	:	Animal testing did not show any carcinogenic effects. Information given is based on data obtained from similar substances.
Mutagenicity	:	In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects

BENZOIC ACID VEVOVITALL / BAG 25 KG FE

Teratogenicity : Animal testing did not show any effects on foetal development.
 Reproductive toxicity : Based on available data, the classification criteria are not met.

Genotoxicity in vitro

Result : negative (In vitro gene mutation study in bacteria; with and without metabolic activation) (OECD Test Guideline 471)
 negative (Chromosome aberration test in vitro; mammalian cells; with and without metabolic activation) (OECD Test Guideline 487)

Genotoxicity in vivo

Result : negative (Chromosome aberration test in vivo; Rat, male) (Oral;)
 (OECD Test Guideline 475)

Teratogenicity

NOAEL Develop. : ≥ 175 mg/kg bw/day
 (Rat)(Oral)Information given is based on data obtained from similar substances.

Reproductive toxicity

NOAEL Fertility : 500 mg/kg bw/day
 (Four-generation study; Rat, male and female)(Oral)No negative effects.

Specific Target Organ Toxicity**Single exposure**

Remarks : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Repeated exposure

Inhalation : Target Organs: LungsCauses damage to organs through prolonged or repeated exposure.

Other toxic properties**Repeated dose toxicity**

NOAEL : > 2500 mg/kg bw/day
 (Rabbit, male and female)(Dermal)
 NOAEL : 250 mg/m³
 (Rat, male and female)(Inhalation; dust/mist) (OECD Test

BENZOIC ACID VEVOVITALL / BAG 25 KG FE

NOAEL : Guideline 412)Systemic toxicity
 : <= 25 mg/m³
 (Rat, male and female)(Inhalation; dust/mist) (OECD Test
 Guideline 412)Local effects

Aspiration hazard

Not applicable,

SECTION 12: Ecological information**12.1. Toxicity**

Component:	Benzoic acid	CAS-No. 65-85-0
Acute toxicity		
Fish		
LC50	:	44,6 mg/l (Lepomis macrochirus (Bluegill sunfish); 96 h) (static test)
Toxicity to daphnia and other aquatic invertebrates		
LC50	:	> 100 mg/l (Daphnia magna (Water flea); 48 h) (static test)
EC50	:	500 mg/l (Daphnia magna (Water flea); 24 h) (static test; OECD Test Guideline 202)Neutralised product.
EC50	:	102 mg/l (Daphnia magna (Water flea); 24 h) (static test; OECD Test Guideline 202)Non neutralised product
algae		
EC50	:	> 33,1 mg/l (Pseudokirchneriella subcapitata; 72 h) (OECD Test Guideline 201)
EC10	:	3,4 mg/l (Pseudokirchneriella subcapitata; 72 h) (OECD Test Guideline 201)
Bacteria		
IC50	:	> 1000 mg/l (activated sludge; 3 h) (Respiration inhibition; OECD Test Guideline 209)
Chronic toxicity		

BENZOIC ACID VEVOVITALL / BAG 25 KG FE**Fish**

NOEC	:	> 120 mg/l (Oncorhynchus mykiss (rainbow trout); 28 d) (semi-static test; OECD Test Guideline 204)
EC50	:	> 120 mg/l (Oncorhynchus mykiss (rainbow trout); 28 d) (semi-static test; OECD Test Guideline 204)

Aquatic invertebrates

NOEC	:	>= 25 mg/l (Daphnia magna (Water flea); 21 d) (OECD Test Guideline 211)
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12.2. Persistence and degradability

Component:	Benzoic acid	CAS-No. 65-85-0
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Persistence and degradability**Persistence**

Result	:	no data available
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Biodegradability

Result	:	89,5 % (Exposure Time: 35 d)rapidly biodegradable
Result	:	> 71,5 % (Exposure Time: 6 d)(OECD Test Guideline 301D)rapidly biodegradable

12.3. Bioaccumulative potential

Component:	Benzoic acid	CAS-No. 65-85-0
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Bioaccumulation

Result	:	log Kow 1,88
	:	BCF: < 10 (Leuciscus idus (Golden orfe); 3 d) Bioaccumulation is not expected.

12.4. Mobility in soil

Component:	Benzoic acid	CAS-No. 65-85-0
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Mobility

Water	:	slightly soluble
Air	:	not volatile

Distribution among environmental compartments

BENZOIC ACID VEVOVITALL / BAG 25 KG FE

Adsorption/Soil, : Koc: 15,49 ((calculated))

12.5. Results of PBT and vPvB assessment

Component:	Benzoic acid	CAS-No. 65-85-0
Results of PBT and vPvB assessment		

Result : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6. Other adverse effects

Component:	Benzoic acid	CAS-No. 65-85-0
Biochemical Oxygen Demand (BOD)		

Result : 1400 mg/g

Chemical Oxygen Demand (COD)		
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Result : 1950 mg/g

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Product : Eliminate waste in conditions authorized by the regulations. Store waste in containers provided for this purpose. Do not dump in drains, water sheets or the ground.

Contaminated packaging : Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

SECTION 14: Transport information

Not dangerous goods for ADR, RID, IMDG and IATA.

14.1. UN number

Not applicable.

BENZOIC ACID VEVOVITALL / BAG 25 KG FE**14.2. UN proper shipping name**

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

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

IMDG : Not applicable.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Data for the product**

Other regulations : Only persons, who are thoroughly instructed in the dangerous properties and the necessary safety precautions of the substance, are allowed to work with it.

Component: Benzoic acid CAS-No. 65-85-0

EU. Regulation EU No. 649/2012 concerning the export and import of dangerous chemicals : ; The substance/mixture does not fall under this legislation.

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC) : ; The substance/mixture does not fall under this legislation.

EU. Regulation No : EC Number: , 200-618-2; Listed

BENZOIC ACID VEVOVITALL / BAG 25 KG FE

1451/2007 [Biocides],
Annex I, OJ (L 325)

EU. Regulation No. : Maximum concentration in ready for use preparation: 0,5 % 1;
1223/2009 on cosmetic products, Annex V: List of Preservatives Allowed in Cosmetic Products
Leave-on products; See the text of the regulation for applicable exceptions or provisions.

Maximum concentration in ready for use preparation: 1,7 % 1;
Oral products; See the text of the regulation for applicable exceptions or provisions.

Maximum concentration in ready for use preparation: 2,5 % 1;
Rinse-off products, except oral products; See the text of the regulation for applicable exceptions or provisions.

EU. Directive : ; The substance/mixture does not fall under this legislation.
2012/18/EU (SEVESO III) Annex I

Notification status**Benzoic acid:**

Regulatory List	Notification	Notification number
AICS	YES	
DSL	YES	
EINECS	YES	200-618-2
ENCS (JP)	YES	(3)-1397
IECSC	YES	
ISHL (JP)	YES	(3)-1397
JEX (JP)	YES	(3)-1397
KECI (KR)	YES	KE-02696
NZIOC	YES	HSR003445
PHARM (JP)	YES	
PICCS (PH)	YES	
TSCA	YES	

15.2. Chemical safety assessment

no data available

SECTION 16: Other information**Full text of H-Statements referred to under sections 2 and 3.**

H315	Causes skin irritation.
H318	Causes serious eye damage.
H372	Causes damage to organs through prolonged or repeated exposure if

BENZOIC ACID VEVOVITALL / BAG 25 KG FE

inhaled.

Abbreviations and Acronyms

BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
PBT	persistent, bioaccumulative and toxic
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
PNEC	predicted no-effect concentration
STOT	specific target organ toxicity
SVHC	substance of very high concern
UVCB	substance of unknown or variable composition, complex reaction products or biological materials
vPvB	very persistent and very bioaccumulative

Further information

Key literature references and sources for data	:	Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.
Methods used for product classification	:	The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.
Hints for trainings	:	The workers have to be trained regularly on the safe handling

BENZOIC ACID VEVOVITALL / BAG 25 KG FE

of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.

Other information :

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.

The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

|| Indicates updated section.