

IKA®-Werke GmbH & CO. KG
79219 Staufen

Date printed 12.07.2017, Revision 12.07.2017

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

1.1 Product identifier

C 723 Benzoic acid

IUPAC	Benzoic acid
EU-INDEX	607-705-00-8
EINECS/ELINCS	200-618-2
CAS	65-85-0

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

1.2.1 Relevant uses

Chemical

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company	IKA®-Werke GmbH & CO. KG Janke & Kunkel-Str. 10 79219 Staufen / GERMANY Phone +49 7633 831-0 Fax +49 7633 831-98 Homepage www.ika.de E-mail info@ika.de
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Address enquiries to

Technical information	info@ika.de
Safety Data Sheet	sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body	+49 (0)89-19240 (24h) (english)
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Eye Dam. 1: H318 Causes serious eye damage.
Skin Irrit. 2: H315 Causes skin irritation.
STOT RE 1: H372 Causes damage to lung through prolonged or repeated exposure if inhaled.

2.2 Label elements

Hazard pictograms



Signal word

DANGER

Contains:

Benzoic acid EU-INDEX 607-705-00-8

Hazard statements

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

Precautionary statements

P260 Do not breathe dust.
P280 Wear protective gloves / 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.
P310 Immediately call a POISON CENTER / doctor.

2.3 Other hazards

Physico-chemical hazards	In the supplied form the product is not explosive at all ; however the build-up of fine dust can lead to a risk of dust explosions.
Environmental hazards	Does not contain any PBT or vPvB substances.
Other hazards	Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a substance.

Range [%]	Substance
100	Benzoic acid
	CAS: 65-85-0, EINECS/ELINCS: 200-618-2, EU-INDEX: 607-705-00-8, Reg-No.: 01-2119455536-33-XXXX
	GHS/CLP: Skin Irrit. 2: H315 - Eye Dam. 1: H318 - STOT RE 1: H372

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%. For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Soaked clothings should be changed as soon as possible.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
Skin contact	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
Eye contact	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
Ingestion	Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Foam, dry powder, water spray jet, carbon dioxide.
Extinguishing media that must not be used	Full water jet.

5.2 Special hazards arising from the substance or mixture

risk of formation of toxic pyrolysis products, carbon monoxide (CO), not combusted hydrocarbons

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Use personal protective equipment (protective gloves, safety glasses, protective clothing).

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically. Avoid production of dust.

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provide vacuuming if dust raised.

Dust can form an explosive mixture with air.

Keep away from all sources of ignition.

Wash hands before breaks and after work.

Use barrier skin cream.

Provide washing facilities at the place of work.

Do not eat, drink, smoke or take drugs at work.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original tightly closed container.

Do not store with alkalis.

Store in a dry place.

Recommended storage temperature: 5-30 °C.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection
8.1 Control parameters
Ingredients with occupational exposure limits to be monitored (GB)

not applicable

DNEL

Substance
Benzoic acid, CAS: 65-85-0
Industrial, inhalative, Long-term - local effects: 100 µg/m ³ .
general population, dermal, Long-term - systemic effects: 31.25 mg/kg bw/day.
general population, inhalative, Long-term - local effects: 60 µg/m ³ .

PNEC

Substance
Benzoic acid, CAS: 65-85-0
soil, 151 µg/kg.
sediment (seaater), 175 µg/kg.
sediment (freshwater), 1.75 mg/kg.
sewage treatment plants (STP), 100 mg/L.
seawater, 34 µg/L.
freshwater, 340 µg/L.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	0,7 mm Nitrile rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing.
Other	Do not inhale dust. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	Respiratory protection in the case of dust formation. Short term: filter apparatus, filter P3. (DIN EN 143)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	See SECTION 6+7.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	solid
Color	white
Odor	characteristic
Odour threshold	No information available.
pH-value	2,8 (sat.)
pH-value [1%]	not determined
Boiling point [°C]	249,2
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	No information available.
Vapour pressure/gas pressure [kPa]	0,00013 (20°C)
Density [g/ml]	1,320
Bulk density [kg/m ³]	No information available.
Solubility in water	2,9 g/L (25°C)
Partition coefficient [n-octanol/water]	log Pow: 1,87
Viscosity	No information available.
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	122 - 123
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.
Reactions with strong alkalis and oxidizing agents.
Reactions with oxygen.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Substance
Benzoic acid, CAS: 65-85-0
LD50, dermal, Rabbit: 2 000 mg/kg bw.
LD50, oral, mouse: 2 250 mg/kg bw.
LD50, oral, Rat: 2 360 - 2 742 mg/kg bw.
LC50, inhalative, Rat: 12,2 mg/L (4h).

Serious eye damage/irritation	Risk of serious damage to eyes.
Skin corrosion/irritation	Irritant
Respiratory or skin sensitisation	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	May cause damage to lung through prolonged or repeated exposure through inhale.
Mutagenicity	Does not contain a relevant substance that meets the classification criteria.
Reproduction toxicity	Does not contain a relevant substance that meets the classification criteria.
Carcinogenicity	Does not contain a relevant substance that meets the classification criteria.
Aspiration hazard	Based on available data, the classification criteria are not met.
General remarks	Further hazards were not determined with the current level of knowledge.

SECTION 12: Ecological information

12.1 Toxicity

Substance
Benzoic acid, CAS: 65-85-0
LC50, (96h), fish: 44.6 mg/L.
EC50, (72h), Algae: 33,1 mg/L.
EC50, (48h), Crustacea: 100 mg/L.

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	The product is readily biodegradable to OECD criteria.

12.3 Bioaccumulative potential

not applicable

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

None known.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Disposal in an incineration plant in accordance with the regulations of the local authorities.
For recycling, consult manufacturer.

Waste no. (recommended) 060106*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150110*

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

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14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable

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

EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2017).

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4

- Observe employment restrictions for people Observe employment restrictions for young people.

- VOC (2010/75/CE) 0 %

15.2 Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information**16.1 Hazard statements (SECTION 03)**

H372 Causes damage to lung through prolonged or repeated exposure if inhaled.

H318 Causes serious eye damage.

H315 Causes skin irritation.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 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
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV@/TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Eye Dam. 1: H318 Causes serious eye damage. (On basis of test data)
 Skin Irrit. 2: H315 Causes skin irritation. (On basis of test data)
 STOT RE 1: H372 Causes damage to lung through prolonged or repeated exposure if inhaled. ()

Modified position

SECTION 2 deleted: H335 May cause respiratory irritation.
SECTION 2 deleted: Irritant
SECTION 2 been added: Does not contain any PBT or vPvB substances.
SECTION 2 deleted: R 37: Irritating to respiratory system.
SECTION 2 been added: P260 Do not breathe dust.
SECTION 2 deleted: STOT SE 3
SECTION 2 been added: Skin Irrit. 2
SECTION 2 been added: STOT RE 1
SECTION 2 been added: health hazard
SECTION 2 been added: H372 Causes damage to lung through prolonged or repeated exposure if inhaled.
SECTION 2 been added: P310 Immediately call a POISON CENTER / doctor.
SECTION 2 deleted: P261 Avoid breathing dust.
SECTION 2 been added: H315 Causes skin irritation.
SECTION 2 deleted: R 41: Risk of serious damage to eyes.
SECTION 7 been added: Dust can form an explosive mixture with air.
SECTION 11 been added: Risk of serious damage to eyes.
SECTION 11 been added: May cause damage to lung through prolonged or repeated exposure through inhale.
SECTION 11 been added: Irritant
SECTION 13 been added: For recycling, consult manufacturer.
SECTION 13 been added: Disposal in an incineration plant in accordance with the regulations of the local authorities.
SECTION 13 deleted: Dispose of as hazardous waste.
SECTION 15 been added:
SECTION 16 been added: On basis of test data

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