

# SAFETY DATA SHEET

Creation Date 01-May-2012

Revision Date 24-Dec-2021

Revision Number 6

	1. Identification
Product Name	Benzoic acid
Cat No. :	AC221800000; AC221800010; AC221800050; AC221802500
CAS No Synonyms	65-85-0 Benzenecarboxylic acid; Benzenemethanoic acid; Phenylcarboxylic acid; Phenylformic acid; Benzeneformic acid; Carboxybenzene
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.
Details of the supplier of the	safety data sheet
Company	Acros Organics

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

**Emergency Telephone Number** 

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

## 2. Hazard(s) identification

Category 2 Category 1 Category 1

Yes

## Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation Specific target organ toxicity - (repeated exposure)	
Target Organs - Lungs. Combustible dust	

## Label Elements

Signal Word Danger

**Hazard Statements** 

May form combustible dust concentrations in air Causes skin irritation Causes serious eye damage Causes damage to organs through prolonged or repeated exposure



#### Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Do not eat, drink or smoke when using this product

## Response

Get medical attention/advice if you feel unwell Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

## Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

## Storage

Store in a well-ventilated place. Keep container tightly closed

## Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

## 3. Composition/Information on Ingredients

Component		CAS No	Weight %		
Benzoic acid		65-85-0	>95		
4. First-aid measures					
Eye Contact         Rinse immediately with plenty of water, also under the eyelids, for at least 15 minute           Immediate medical attention is required.			ne eyelids, for at least 15 minutes.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.				
Inhalation	Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.				
Ingestion	Do NOT ind	uce vomiting. Get medical attention.			
Most important symptoms and	Causes eye	burns.			
effects Notes to Physician	Treat sympton	omatically			
	5. Fi	ire-fighting measures			

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.
Unsuitable Extinguishing Media	No information available
Flash Point	121 °C / 249.8 °F
Method -	No information available
Autoignition Temperature	570 °C / 1058 °F
Explosion Limits Upper Lower Sensitivity to Mechanical Impa Sensitivity to Static Discharge	

## **Specific Hazards Arising from the Chemical**

Dust can form an explosive mixture with air. Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.

## **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u> Health 3	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions	Use personal protective ec formation. Avoid contact w		adequate ventilation. Avoid dust

See Section 12 for additional Ecological Information.

**Environmental Precautions** 

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Avoid dust formation. Do not breathe dust.
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks and flame. Incompatible Materials. Strong acids. Strong bases. Strong oxidizing agents. Strong reducing agents. Metals.
	8. Exposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

## Personal Protective Equipment

Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

	9. Physical and chemical properties
Physical State	Solid
Appearance	Off-white
Odor	aromatic
Odor Threshold	No information available
рН	2.5-3.5 2.9 g/l water
Melting Point/Range	121 - 123 °C / 249.8 - 253.4 °F
Boiling Point/Range	249 °C / 480.2 °F @ 760 mmHg
Flash Point	121 °C / 249.8 °F
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	23 hPa @ 20 °C
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Soluble
Partition coefficient; n-octanol/wa	ater No data available
Autoignition Temperature	570 °C / 1058 °F
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C7 H6 O2
Molecular Weight	122.12

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Stable under normal conditions.		
Conditions to Avoid	Incompatible products. Avoid dust formation.		
Incompatible Materials	Strong acids, Strong bases, Strong oxidizing agents, Strong reducing agents, Metals		
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)			
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	aqueous solution, May react with metals and lead to the formation of flammable hydrogen gas.		
	11. Toxicological information		

## Acute Toxicity

## Product Information

Component		LD50 Oral	LD50 Oral LD50 Derma		LC50	nhalation	
Benzoic ac		1700 mg/kg(Rat) 2565 mg/kg(Rat)	1700 mg/kg (Rat) LD50 > 10000 mg/kg (Rabbit)		LC50 > 12.2 mg/L (Rat) 4 h		
Foxicologically Syn	ergistic	No information avail	able				
Products	-						
Delayed and immed	liate effects a	as well as chronic effect	ts from short an	d long-term exposure	<u>e_</u>		
rritation		Risk of serious dam	Risk of serious damage to eyes Irritating to skin				
Sensitization	No information available						
Carcinogenicity		The table below ind	icates whether ea	ach agency has listed a	any ingredient a	as a carcinoge	
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico	
Benzoic acid	65-85-0	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		Not mutagenic in AM	Not mutagenic in AMES Test				
Reproductive Effects		No information avail	No information available.				
Developmental Effects N		No information avail	No information available.				
Teratogenicity No information available.							
STOT - single exposureNone knownSTOT - repeated exposureLungs							
Aspiration hazard		No information avail	No information available				
Symptoms / effects,both acute and No information available delayed							
Endocrine Disrupto	r Informatio	n No information avail	able				
Other Adverse Effe	Adverse Effects The toxicological properties have not been fully investigated. See actual entry in complete information.				ntry in RTECS		

12. Ecological information

## Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Benzoic acid	Not listed	LC50: = 44.6 mg/L, 96h	EC50 = 16.85 mg/L 30 min	EC50: = 860 mg/L, 48h
		static (Lepomis macrochirus)	EC50 = 16.9 mg/L 15 min	Static (Daphnia magna)
Persistence and Degrada	ability Soluble in w	ater Persistence is unlikely	based on information avai	lable.
Bioaccumulation/ Accum Mobility		ion available.		
Component			log Pow	
Benzoic acid			1.9	
13. Disposal considerations				

 Waste Disposal Methods
 Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information	
DOT	Not regulated	
DOT TDG IATA	Not regulated	
IATA_	Not regulated	
IMDG/IMO	Not regulated	
	15. Regulatory information	

## United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Benzoic acid	65-85-0	Х	ACTIVE	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Benzoic acid	65-85-0	Х	-	200-618-2	Х	Х	Х	Х	Х	KE-02696

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

### U.S. Federal Regulations

SARA 313

Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

## CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Benzoic acid	Х	5000 lb	-	-

Clean Air Act	Not applicable
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**OSHA** - Occupational Safety and Not applicable Health Administration

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Benzoic acid	5000 lb	-

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Benzoic acid	Х	Х	Х	-	-

#### U.S. Department of Transportation

U.S. Department of Homeland	This product does not contain any DHS chemicals.
DOT Marine Pollutant DOT Severe Marine Pollutant	N N
Reportable Quantity (RQ):	Y

Other International Regulations

Mexico - Grade

Security

No information available

## Authorisation/Restrictions according to EU REACH

Component		REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	
Benzoic acid	-	Use restricted. See item 75.	-
		(see link for restriction details)	

https://echa.europa.eu/substances-restricted-under-reach

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Benzoic acid	65-85-0	Listed	Not applicable	Not applicable	Not applicable

	Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
L	Benzoic acid	65-85-0	Not applicable	Not applicable	Not applicable	Annex I - Y34

	16. Other information			
Prepared By	Regulatory Affairs			
	Thermo Fisher Scientific			
	Email: EMSDS.RA@thermofisher.com			
Creation Date	01-May-2012			
Revision Date	24-Dec-2021			
Print Date	24-Dec-2021			
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).			

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text

# End of SDS