

I U C L I D

D a t a s e t

Existing Chemical	Substance ID: 118-58-1
CAS No.	118-58-1
EINECS Name	benzyl salicylate
EINECS No.	204-262-9
Molecular Weight	228.26
Structural Formula	HO.C6H4.CO2.CH2.C6H5
Molecular Formula	C14H12O3

Dataset created by: EUROPEAN COMMISSION - European Chemicals Bureau

This dossier is a compilation based on data reported by the European Chemicals Industry following 'Council Regulation (EEC) No. 793/93 on the Evaluation and Control of the Risks of Existing Substances'. All (non-confidential) information from the single datasets, submitted in the IUCLID/HEDSET format by individual companies, was integrated to create this document.

The data have not undergone any evaluation by the European Commission.

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1.0.1 OECD and Company Information

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1.0.2 Location of Production Site

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1.0.3 Identity of Recipients

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1.1 General Substance Information

Substance type: organic
Physical status: liquid

Substance type: organic
Physical status: solid

1.1.1 Spectra

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1.2 Synonyms

Benzoessäure, 2-Hydroxy-, Phenylmethyl-ester

Source: Henkel KGaA Duesseldorf

Benzoic acid, 2-hydroxy-, phenylmethyl ester

Source: International Flavors & Fragrances Benicarlo (Castellon)
 Henkel KGaA Duesseldorf
 Haarmann & Reimer GmbH Holzminden

benzyl o-hydroxybenzoate

Source: International Flavors & Fragrances Benicarlo (Castellon)

Benzyl 2-hydroxy benzoate.

Source: Rhodia Chimie COURBEVOIE

Benzyl o-hydroxybenzoate

Source: Henkel KGaA Duesseldorf

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Benzyl salicylate

Source: International Flavors & Fragrances Benicarlo (Castellon)
Henkel KGaA Duesseldorf

Benzyl salicylate (INCI)

Source: Henkel KGaA Duesseldorf

Salicylic acid benzyl ester

Source: International Flavors & Fragrances Benicarlo (Castellon)

Salicylic acid, benzyl ester

Source: Henkel KGaA Duesseldorf
Haarmann & Reimer GmbH Holzminden

1.3 Impurities

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1.4 Additives

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1.5 Quantity

Quantity 5 000 - 10 000 tonnes

1.6.1 Labelling

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1.6.2 Classification

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1.7 Use Pattern

Type: type
Category: Wide dispersive use

Type: industrial
Category: Personal and domestic use

Type: industrial
Category: Public domain

Type: use
Category: Cleaning/washing agents and disinfectants

Type: use
Category: Cosmetics

Type: use
Category: Food/foodstuff additives

Type: use
Category: Odour agents

Type: use
Category: other: Perfumery

1.7.1 Technology Production/Use

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1.8 Occupational Exposure Limit Values

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1.9 Source of Exposure

Remark: Exposure of the general population due to use in consumer products such as: cosmetics, household and laundry cleaning products or airfreshener systems which are fragranced. Such products may contain low levels of this substance.

Source: International Flavors & Fragrances Benicarlo (Castellon)

Remark: Substance is a fragrance ingredient which is used in fragrance compositions at a level of typically a few percent. These fragrance compositions are used to perfume a wide variety of consumer products. The level of the fragrance ingredient in the consumer products is typically a few hundred ppm.

Source: Quest International Ashford, Kent

1.10.1 Recommendations/Precautionary Measures

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1.10.2 Emergency Measures

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1.11 Packaging

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1.12 Possib. of Rendering Subst. Harmless

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1.13 Statements Concerning Waste

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1.14.1 Water Pollution

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1.14.2 Major Accident Hazards

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1.14.3 Air Pollution

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1.15 Additional Remarks

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1.16 Last Literature Search

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1.17 Reviews

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1.18 Listings e.g. Chemical Inventories

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2.1 Melting Point

Value: ca. 24 degree C
GLP: no data
Source: International Flavors & Fragrances Benicarlo (Castellon) (2)

2.2 Boiling Point

Value: = 208 degree C at 35 hPa
GLP: no data
Source: International Flavors & Fragrances Benicarlo (Castellon) (2)

Value: = 335 degree C at 1.013 hPa
GLP: no data
Source: International Flavors & Fragrances Benicarlo (Castellon) (2)

2.3 Density

Type: relative density
Value: 1.174 - 1.182
GLP: no
Source: International Flavors & Fragrances Benicarlo (Castellon) (3)

2.3.1 Granulometry

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2.4 Vapour Pressure

Value: = .16 hPa at 25 degree C
GLP: no data
Source: International Flavors & Fragrances Benicarlo (Castellon) (2)

Value: 1.33 hPa at 45 degree C
GLP: no data
Source: International Flavors & Fragrances Benicarlo (Castellon) (2)

2.5 Partition Coefficient

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2.6.1 Water Solubility

Remark: Slightly soluble, IFRA/IOFI, September 1986
Source: International Flavors & Fragrances Benicarlo (Castellon)

2.6.2 Surface Tension

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2.7 Flash Point

Value: > 101 degree C

Type: closed cup

Method:

Year:

GLP: no data

Source: International Flavors & Fragrances Benicarlo (Castellon)

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2.8 Auto Flammability

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2.9 Flammability

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2.10 Explosive Properties

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2.11 Oxidizing Properties

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2.12 Additional Remarks

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3.1.1 Photodegradation

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3.1.2 Stability in Water

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3.1.3 Stability in Soil

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3.2 Monitoring Data (Environment)

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3.3.1 Transport between Environmental Compartments

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3.3.2 Distribution

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3.4 Mode of Degradation in Actual Use

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3.5 Biodegradation

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3.6 BOD5, COD or BOD5/COD Ratio

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3.7 Bioaccumulation

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3.8 Additional Remarks

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AQUATIC ORGANISMS

4.1 Acute/Prolonged Toxicity to Fish

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4.2 Acute Toxicity to Aquatic Invertebrates

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4.3 Toxicity to Aquatic Plants e.g. Algae

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4.4 Toxicity to Microorganisms e.g. Bacteria

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4.5 Chronic Toxicity to Aquatic Organisms

4.5.1 Chronic Toxicity to Fish

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4.5.2 Chronic Toxicity to Aquatic Invertebrates

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TERRESTRIAL ORGANISMS

4.6.1 Toxicity to Soil Dwelling Organisms

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4.6.2 Toxicity to Terrestrial Plants

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4.6.3 Toxicity to other Non-Mamm. Terrestrial Species

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4.7 Biological Effects Monitoring

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4.8 Biotransformation and Kinetics

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4.9 Additional Remarks

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5.1 Acute Toxicity

5.1.1 Acute Oral Toxicity

Type: LD50
Species: rat
Sex:
Number of Animals:
Vehicle:
Value: 2227 mg/kg bw
Method: other
Year: 1970 **GLP:** no data
Test substance: no data
Remark: 6 male rats/dose. 18 hour predose fast. 7 day observation for mortality and clinical signs. 1250 mg/kg - no effects. 2500 mg/kg - 4 deaths. 5000 mg/kg - 6 deaths.
Source: International Flavors & Fragrances Benicarlo (Castellon)

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5.1.2 Acute Inhalation Toxicity

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5.1.3 Acute Dermal Toxicity

Type: LD50
Species: rabbit
Sex:
Number of Animals:
Vehicle:
Value: 14150 mg/kg bw
Method: other
Year: 1970 **GLP:** no
Test substance: no data
Remark: 3 rabbits/dose. 5,000 mg/kg - no effects. 10,000 mg/kg - nonspecific effects, 1/3 deaths. 20,000 mg/kg - nonspecific effects, 2/3 deaths.
Source: International Flavors & Fragrances Benicarlo (Castellon)

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5.1.4 Acute Toxicity, other Routes

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5.2 Corrosiveness and Irritation

5.2.1 Skin Irritation

Species: rabbit
Concentration:

Exposure:
Exposure Time:
Number of
Animals:
PDII:
Result: not irritating
EC classificat.: not irritating
Method: Draize Test
Year: 1975 **GLP:** no
Test substance: no data
Remark: The test substance was tested as a 10% solution in ethanol.
Source: International Flavors & Fragrances Benicarlo (Castellon) (5)

Species: rabbit
Concentration:

Exposure:
Exposure Time:
Number of
Animals:
PDII:
Result: not irritating
EC classificat.: not irritating
Method: Directive 84/449/EEC, B.4 "Acute toxicity (skin irritation)"
Year: 1885 **GLP:** yes
Test substance: no data
Source: International Flavors & Fragrances Benicarlo (Castellon) (6)

Species: rabbit
Concentration:

Exposure:
Exposure Time:
Number of
Animals:
PDII:
Result: not irritating
EC classificat.: not irritating
Method: Directive 84/449/EEC, B.4 "Acute toxicity (skin irritation)"
Year: 1984 **GLP:** yes
Test substance: no data
Source: International Flavors & Fragrances Benicarlo (Castellon) (7)

Species: human
Concentration:

Exposure:
Exposure Time:
Number of Animals:

PDII:
Result: not irritating
EC classificat.: not irritating
Method: other
Year: 1975 **GLP:** no
Test substance: no data
Remark: The test substance was tested as a 10% solution in ethanol.
Source: International Flavors & Fragrances Benicarlo (Castellon) (5)

Species: human
Concentration:

Exposure:
Exposure Time:
Number of Animals:

PDII:
Result: slightly irritating
EC classificat.: not irritating
Method: other
Year: 1975 **GLP:** no
Test substance: no data
Remark: A 48 hour closed patch test on the backs of 22 volunteers. Vehicle was petrolatum. At 30% - very slight irritant effect.
Source: International Flavors & Fragrances Benicarlo (Castellon) (8)

5.2.2 Eye Irritation

Species: rabbit
Concentration:
Dose:
Exposure Time:
Comment:
Number of Animals:

Result: moderately irritating
EC classificat.: not irritating
Method: Draize Test
Year: 1975 **GLP:** no
Test substance: no data
Remark: The test substance was tested as a 10% solution in ethanol.
Source: International Flavors & Fragrances Benicarlo (Castellon) (5)

5.3 Sensitization

Type: Patch-Test
Species: human
Number of Animals:
Vehicle:
Result: not sensitizing
Classification: not sensitizing
Method: other
Year: 1975 **GLP:** no
Test substance: no data
Remark: Test substance tested as a 10% solution in alcohol.
Source: International Flavors & Fragrances Benicarlo (Castellon)

(5)

Type: other
Species: human
Number of Animals:
Vehicle:
Result: not sensitizing
Classification: not sensitizing
Method: other
Year: 1975 **GLP:** no
Test substance: no data
Remark: The material was tested as a 30% solution in petrolatum on 25 volunteers and produced no sensitization reactions.
Source: International Flavors & Fragrances Benicarlo (Castellon)

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5.4 Repeated Dose Toxicity

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5.5 Genetic Toxicity 'in Vitro'

Type: Ames test
System of testing: TA98, TA100, TA1535, TA1537, TA97
Concentration: 3.3 to 333.3 ug/plate
Metabolic activation: with and without
Result: negative
Method: other
Year: 1987 **GLP:** no data
Test substance: no data
Source: International Flavors & Fragrances Benicarlo (Castellon)

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5.6 Genetic Toxicity 'in Vivo'

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5.7 Carcinogenicity

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5.8 Toxicity to Reproduction

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5.9 Developmental Toxicity/Teratogenicity

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5.10 Other Relevant Information

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5.11 Experience with Human Exposure

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- (1) Rhone-Poulenc Safety Data Sheet - (SDS Rhone-Poulenc 13/12/94)
- (2) IFRA/IOFI, September 1986
- (3) Analytical Specifications, IFF
- (4) Food and Chemical Toxicology 11 p1029, 1973
- (5) IFF study, 1975.
- (6) RIFM study, 1985.
- (7) RIFM study, 1984.
- (8) RIFM study, 1975.
- (9) Zeiger E., Anderson B., Haworth S., Lawlor T., Mortelmans K. and Speck W. Salmonella mutagenicity tests: III. Results from the testing of 255 chemicals. *Envir. Mutagen.*, 9(9), 1-110, 1987.

7.1 Risk Assessment

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