

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006  
(REACH)



Trade name : Overall Casing (050.421)  
Revision date : 31.12.2025  
Print date : 09.03.2026

Version (Revision) : 5.2.0 (5.1.0)

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

**1.1 Product identifier**

Overall Casing (050.421)

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

PC 0.79 - Flavouring agents , Industrial uses

**1.3 Details of the supplier of the safety data sheet**

**Supplier**

Hertz & Selck GmbH & Co.

**Street :** Tarpenring 23

**Postal code/City :** 22419 Hamburg

**Telephone :** +49 40 432576-0

**E-mail (competent person) :** safety@hertz-selck.de

**1.4 Emergency telephone number**

+49 40 4325760 (6 – 18 h, local time)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

None

**2.2 Label elements**

None

**2.3 Other hazards**

**Adverse environmental effects**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**Hazardous ingredients**

CITRIC ACID ; REACH No. : 01-2119457026-42 ; EC No. : 201-069-1; CAS No. : 77-92-9

Weight fraction :  $\geq 1 - < 5\%$

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319 STOT SE 3 ; H335

**Additional information**

This mixture contains no substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH.

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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#### **Following inhalation**

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious but breathing normally, place in recovery position and seek medical advice.

#### **In case of skin contact**

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately.

#### **After eye contact**

Rinse immediately carefully and thoroughly with eye-bath or water.

#### **Following ingestion**

Rinse mouth thoroughly with water.

#### **4.2 Most important symptoms and effects, both acute and delayed**

No known symptoms to date.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

None

### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>) , alcohol resistant foam , Extinguishing powder , Water mist .

##### **Unsuitable extinguishing media**

Full water jet

#### **5.2 Special hazards arising from the substance or mixture**

In case of fire may be liberated: Carbon monoxide

#### **5.3 Advice for firefighters**

Use suitable breathing apparatus.

### **SECTION 6: Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Provide adequate ventilation.

#### **6.2 Environmental precautions**

Do not allow to enter into surface water or drains.

#### **6.3 Methods and material for containment and cleaning up**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Ventilate affected area. Treat the recovered material as prescribed in the section on waste disposal.

#### **6.4 Reference to other sections**

None

### **SECTION 7: Handling and storage**

#### **7.1 Precautions for safe handling**

Use only in well-ventilated areas.

##### **Advices on general occupational hygiene**

When using do not eat, drink, smoke, sniff.

#### **7.2 Conditions for safe storage, including any incompatibilities**

##### **Requirements for storage rooms and vessels**

Floors should be impervious, resistant to liquids and easy to clean. Keep only in the original container in a cool, well-

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ventilated place. Keep container tightly closed.

**Hints on joint storage**

Storage class (TRGS 510) : 10

**Further information on storage conditions**

Keep away from sources of ignition - No smoking.

**7.3 Specific end use(s)**

None

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

Occupational Exposure Limit - RCP-method TRGS 900 ( D )

**Occupational exposure limit values**

GLYCEROL ; CAS No. : 56-81-5

Limit value type (country of origin) : TRGS 900 ( D )

Parameter : E: inhalable fraction

Limit value : 200 mg/m<sup>3</sup>

Peak limitation : 2(I)

Remark : Y

Version : 06.05.2025

CITRIC ACID ; CAS No. : 77-92-9

Limit value type (country of origin) : TRGS 900 ( D )

Parameter : E: inhalable fraction

Limit value : 2 mg/m<sup>3</sup>

Peak limitation : 2(I)

Remark : Y

Version : 06.05.2025

**DNEL-/PNEC-values**

**PNEC**

CITRIC ACID ; CAS No. : 77-92-9

Limit value type : PNEC (Aquatic, freshwater)

Limit value : 0,44 mg/l

Limit value type : PNEC (Aquatic, marine water)

Limit value : 0,044 mg/l

Limit value type : PNEC (Sediment, freshwater)

Limit value : 34,6 mg/kg dw

Limit value type : PNEC (Sediment, marine water)

Limit value : 3,46 mg/kg dw

Limit value type : PNEC (Soil)

Limit value : 33,1 mg/kg dw

Limit value type : PNEC (Sewage treatment plant)

Limit value : > 1000 mg/l

**8.2 Exposure controls**

**Personal protection equipment**

**Eye/face protection**

**Suitable eye protection**



Eye glasses with side protection

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## Skin protection

### Hand protection



Disposable gloves.

**Suitable material** : NBR (Nitrile rubber)

**Recommended glove articles** : Dermatril P , EN ISO 374

### Body protection

Overall , lab coat

**Recommended material** : Natural fibres (e.g. cotton)

## Respiratory protection

Usually no personal respiratory protection necessary. Respiratory protection necessary at: insufficient ventilation , aerosol or mist formation.

## General information

Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Colour** : brown

**Odour** : characteristic

#### Safety characteristics

**Physical state** :

Liquid

**Melting point/freezing point** : ( 1013 hPa )

No data available

**Initial boiling point and boiling range** : ( 1013 hPa )

approx.

120 °C

**Decomposition temperature** : ( 1013 hPa )

No data available

**Flash point** :

>

100 °C

**Auto-ignition temperature** :

No data available

**Lower explosion limit** :

No data available

**Upper explosion limit** :

No data available

**Density** : ( 20 °C )

1,203 - 1,243 g/cm<sup>3</sup>

**Water solubility** : ( 20 °C )

No data available

**pH** :

3,9

**log P O/W** :

No data available

**Viscosity** : ( 20 °C )

No data available

**Kinematic viscosity** : ( 40 °C )

No data available

**Odour threshold** :

No data available

**Vapourisation rate** :

No data available

**Maximum VOC content (EC)** :

10,4 Weight-%

**Flammable solids** : No data available.

**Flammable gases** : No data available.

**Explosive properties** : No data available.

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

There are no data available on the mixture itself.

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### 10.2 Chemical stability

There are no data available on the mixture itself.

### 10.3 Possibility of hazardous reactions

There are no data available on the mixture itself.

### 10.4 Conditions to avoid

Vapours of flammable solvents can accumulate in the gas phase of closed container, especially during heat treatment.  
Therefore keep away from fire and sources of ignition.

### 10.5 Incompatible materials

Strong acid , Strong alkali , Oxidizing agent.

### 10.6 Hazardous decomposition products

There are no data available on the mixture itself.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Frequently or prolonged contact with skin may cause dermal irritation. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

#### Acute toxicity

##### Acute oral toxicity

Parameter : LD50 ( CITRIC ACID ; CAS No. : 77-92-9 )  
Exposure route : Oral  
Species : Mouse  
Effective dose : 5400 mg/kg  
Method : OECD 401

##### Acute dermal toxicity

Parameter : LD50 ( CITRIC ACID ; CAS No. : 77-92-9 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg  
Method : OECD 402

#### Corrosion

##### Serious eye damage/eye irritation

Parameter : Serious eye damage/eye irritation ( CITRIC ACID ; CAS No. : 77-92-9 )  
Exposure time : 24 h

### 11.2 Information on other hazards

No information available.

## SECTION 12: Ecological information

### 12.1 Toxicity

There are no data available on the mixture itself.

### 12.2 Persistence and degradability

#### Biodegradation

Parameter : Biodegradation ( CITRIC ACID ; CAS No. : 77-92-9 )  
Evaluation parameter : Aerobic  
Degradation rate : 97 %  
Test duration : 28 D  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301B

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**12.3 Bioaccumulative potential**

There are no data available on the mixture itself.

**12.4 Mobility in soil**

There are no data available on the mixture itself.

**Adsorption**

**12.5 Results of PBT and vPvB assessment**

There are no data available on the mixture itself.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6 Endocrine disrupting properties**

No information available.

**12.7 Other adverse effects**

There are no data available on the mixture itself.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information**

**14.1 UN number or ID number**

No dangerous good in sense of these transport regulations.

**14.2 UN proper shipping name**

No dangerous good in sense of these transport regulations.

**14.3 Transport hazard class(es)**

No dangerous good in sense of these transport regulations.

**14.4 Packing group**

No dangerous good in sense of these transport regulations.

**14.5 Environmental hazards**

No dangerous good in sense of these transport regulations.

**14.6 Special precautions for user**

None

**SECTION 15: Regulatory information**

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

**EU legislation**

**Authorisations and/or restrictions on use**

**Restrictions on use**

**Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)**

Use restriction according to REACH annex XVII, no. : 75

**National regulations**

**Technische Anleitung zur Reinhaltung der Luft (TA-Luft)**

Weight fraction (Number 5.2.5. I) : < 5 %

**Water hazard class**

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

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**15.2 Chemical Safety Assessment**

No information available.

**SECTION 16: Other information**

**16.1 Indication of changes**

02. Label elements

**16.2 Abbreviations and acronyms**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AGW	Arbeitsplatzgrenzwert (=occupational exposure limit)
ATE	Acute Toxicity Estimate
AwSV	Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen
CAS	Chemical Abstract Service
CLP	Classification, Labelling and Packaging of substances and mixtures
CMR	cancerogen, mutagen, reprotoxic
EC50	Half maximal effective concentration
ECHA	European Chemicals Agency
EC	European Community
DNEL	Derived No-Effect Level
GHS	Globally Harmonized System
IATA	International Air Transport Association
IATA-DGR	IATA-Dangerous Goods Regulations
ICAO	International Civil Aviation Organization
ICAO-TI	Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG-Code	International Maritime Code for Dangerous Goods
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
LOEC	Lowest Observed Effect Concentration
LQ	Limited Quantity
MAK	Maximale Arbeitsplatz-Konzentration (=maximum allowable concentration)
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
n.a.	not applicable
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative and toxic
PNEC	Predicted No-Effect Concentration
pOW	Partition coefficient
RAC	Risk Assessment Committee
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RCP	Representative Concentration Pathway
RID	Regulation on the International Carriage by Rail of Dangerous Goods
STEL	Short-Term Exposure Limit
STOT	Specific Target Organ Toxicity
SVHC	Substance with Very High Concern
TLV	Threshold Limit Value

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TRGS	Technische Regeln für Gefahrstoffe (= Technical Rules for Hazardous Substances)
TRK	Technische Richtkonzentration (= Technically Standard Concentration)
TWA	Time-weighted-average
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative
WGK	Water hazard class

**16.3 Key literature references and sources for data**

None

**16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]**

No information available.

**16.5 Relevant H- and EUH-phrases (Number and full text)**

H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

**16.6 Training advice**

None

**16.7 Additional information**

None

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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