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### Phenolphthalein ROTI(R)Calipure Melting point standard

### article number: **2919** Version: **GHS 1.0 en**

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

Identification of the substance

Article number

Registration number (REACH)

Index No

EC number

CAS number

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

# Identified uses:

laboratory chemical laboratory and analytical use

according to REACH (< 1 t/a)

It is not required to list the identified uses because the substance is not subject to registration

Phenolphthalein

604-076-00-1

201-004-7

77-09-8

2919

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

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:** +49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data : Department Health, Safety and Environment sheet

## e-mail (competent person)

# : sicherheit@carlroth.de

# 1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
NSW Poisons Informa- tion Centre Childrens Hospital	Hawkesbury Road	2145 Westmead, NSW	131126	

Emergency information service

Poison Centre Munich: +49/(0)89 19240

# **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

**Classification acc. to GHS** 



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Classification acc. to GHS				
Section	Hazard class	Hazard class and cat- egory	Hazard state- ment	
3.5	germ cell mutagenicity	(Muta. 2)	H341	
3.6	carcinogenicity	(Carc. 1B)	H350	
3.7	reproductive toxicity	(Repr. 2)	H361f	

### 2.2 Label elements

Labelling GHS

Signal word Danger

### **Pictograms**

GHS08



### **Hazard statements**

H341	Suspected of causing genetic defects
H350	May cause cancer
H361f	Suspected of damaging fertility

### **Precautionary statements**

### **Precautionary statements - prevention**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P281	Use personal protective equipment as required.

### **Precautionary statements - response**

P308+P313 IF exposed or concerned: Get medical advice/attention.

### **Precautionary statements - storage**

P405 Store locked up.

### **Precautionary statements - disposal**

P501 Dispose of contents/container to industrial combustion plant.

#### For professional users only

#### Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Symbol(s)



H361f

Suspected of causing genetic defects. May cause cancer. Suspected of damaging fertility.

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P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P281	Use personal protective equipment as required.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container to industrial combustion plant.

### 2.3 Other hazards

There is no additional information.

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

### 3.1 Substances

Name of substance	Phenolphthalein
Index No	604-076-00-1
EC number	201-004-7
CAS number	77-09-8
Molecular formula	$C_{20}H_{14}O_4$
Molar mass	318.3 <sup>g</sup> / <sub>mol</sub>

### Substance of Very High Concern (SVHC)

Name of substance	CAS No	Wt%	Listed in	Remarks
Phenolphthalein	77-09-8	100	Candidate list	Carc. A57a

#### Legend

Candidate list Carc. A57a

Substances meeting the criteria referred to in Article 57 and for eventual inclusion in Annex XIV Carcinogenic (article 57a)

# **SECTION 4: First aid measures**

### 4.1 Description of first aid measures



### **General notes**

Take off contaminated clothing.

### **Following inhalation**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

### Following skin contact

Rinse skin with water/shower.

#### Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

### **Following ingestion**

Rinse mouth. Let water be drunken in little sips (dilution effect). In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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

After ingestion: Nausea, Vomiting, Diarrhoea, Gastrointestinal complaints, Fever, Cardiac arrhythmias, Circulatory collapse

#### 4.3 Indication of any immediate medical attention and special treatment needed none

# SECTION 5: Firefighting measures

#### 5.1 **Extinguishing media**



### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings water spray, foam, dry extinguishing powder, carbon dioxide (CO2)

### Unsuitable extinguishing media

water jet

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

Combustible.

### Hazardous combustion products

In case of fire may be liberated: carbon monoxide (CO), carbon dioxide (CO2)

#### 5.3 Advice for firefighters

Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

# SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe dust.

#### 6.2 **Environmental precautions**

Keep away from drains, surface and ground water.

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

## Advices on how to contain a spill

Covering of drains.

Advices on how to clean up a spill

Take up mechanically. Control of dust.

### Other information relating to spills and releases

Place in appropriate containers for disposal.

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### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Provision of sufficient ventilation. Avoid dust formation. Avoid exposure. When not in use, keep containers tightly closed.

### • Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits.

### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

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

Store in a dry place. Keep container tightly closed.

### Incompatible substances or mixtures

Observe hints for combined storage.

**Consideration of other advice** 

### • Ventilation requirements

Use local and general ventilation.

### • Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C.

### 7.3 Specific end use(s)

No information available.

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

### 8.1 Control parameters

National limit values

## **Occupational exposure limit values (Workplace Exposure Limits)**

Data are not available.

### 8.2 Exposure controls

### Individual protection measures (personal protective equipment)

### **Eye/face protection**



Use safety goggle with side protection.

### **Skin protection**



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### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

### • type of material

NBR (Nitrile rubber)

#### material thickness

>0,11 mm

### • breakthrough times of the glove material

>480 minutes (permeation: level 6)

### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

### **Respiratory protection**



Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P2 (filters at least 94 % of airborne particles, colour code: White).

#### **Environmental exposure controls**

Keep away from drains, surface and ground water.

# **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Appearance	
Physical state	solid (powder, crystalline)
Colour	white
Odour	odourless
Odour threshold	No data available
Other physical and chemical parameters	
pH (value)	This information is not available.
Melting point/freezing point	258 – 263 °C
Initial boiling point and boiling range	>450 °C
Flash point	not applicable
Evaporation rate	no data available
Flammability (solid, gas)	These information are not available
Explosive limits	
lower explosion limit (LEL)	this information is not available
• upper explosion limit (UEL)	this information is not available
Explosion limits of dust clouds	these information are not available

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Vapour pressu	re la	This information is not available.
Density		1.3 <sup>g</sup> / <sub>cm³</sub> at 20 °C
Vapour density		This information is not available.
Bulk density		~ 350 – 450 <sup>kg</sup> / <sub>m³</sub>
Relative density	/	Information on this property is not available.
Solubility(ies)		
Water solubility	/	<10 <sup>mg</sup> / <sub>l</sub> at 20 °C
Partition coefficient	cient	
n-octanol/wate	r (log KOW)	0.9 (pH value: 6.6, 25 °C) (ECHA)
Auto-ignition te	emperature	397 °C
Decomposition	temperature	no data available
Viscosity		not relevant (solid matter)
Explosive prop	erties	Shall not be classified as explosive
Oxidising prop	erties	none

# 9.2 Other information

There is no additional information.

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### **10.3** Possibility of hazardous reactions

Violent reaction with: Strong oxidiser

## 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### **10.5** Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

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# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### Acute toxicity

Shall not be classified as acutely toxic.

### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

### **Respiratory or skin sensitisation**

Shall not be classified as a respiratory or skin sensitiser.

## Summary of evaluation of the CMR properties

Germ cell mutagenicity: Suspected of causing genetic defects Carcinogenicity: May cause cancer Reproductive toxicity: Suspected of damaging fertility

### • Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

### • Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

## Symptoms related to the physical, chemical and toxicological characteristics

### • If swallowed

nausea, vomiting, diarrhoea, gastrointestinal complaints

• If in eyes

data are not available

If inhaled

data are not available

• If on skin

data are not available

### **Other information**

Other adverse effects: Cardiovascular system

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# **SECTION 12: Ecological information**

## 12.1 Toxicity

acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

### Aquatic toxicity (acute)

Endpoint	Value	Species	Source	Exposure time
EC50	>100 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	ECHA	48 h
ErC50	8.9 <sup>mg</sup> / <sub>l</sub>	algae	ECHA	72 h

### 12.2 Process of degradability

The substance is readily biodegradable. Theoretical Oxygen Demand: 2.161 <sup>mg</sup>/<sub>mg</sub> Theoretical Carbon Dioxide: 2.765 <sup>mg</sup>/<sub>mg</sub>

Process	Degradation rate	Time
biotic/abiotic	76 %	28 d
oxygen depletion	76 %	28 d

### 12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

n-octanol/water (log KOW)

0.9 (pH value: 6.6, 25 °C)

### 12.4 Mobility in soil

Data are not available.

# **12.5 Results of PBT and vPvB assessment** Data are not available.

### 12.6 Other adverse effects

Data are not available.

### **Endocrine disrupting potential**

Name of substance	CAS No	Combined cat- egory	Human health category	Wildlife cat- egory
Phenolphthalein	77-09-8	CAT1	CAT1	CAT3b

Legend CAT1 CAT3b

Category 1 - evidence of endocrine disruption in at least one species using intact animals Category 3b - no evidence of endocrine disruption or no data available

# **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

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### Sewage disposal-relevant information

Do not empty into drains.

### Sewage disposal-relevant information

Do not empty into drains.

### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

SEC	TION 14: Transport information	
14.1	UN number	(not subject to transport regulations)
14.2	UN proper shipping name	not relevant
14.3	Transport hazard class(es)	not relevant
	Class	-
14.4	Packing group	not relevant not assigned to a packing group
14.5	Environmental hazards	<b>NONE</b> (non-environmentally hazardous acc. to the danger- ous goods regulations)

### 14.6 Special precautions for user

There is no additional information.

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

The cargo is not intended to be carried in bulk.

### 14.8 Information for each of the UN Model Regulations

## • Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) Not subject to ADR, RID and ADN.

### • International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

## • International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

# **SECTION 15: Regulatory information**

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

### **National inventories**

Substance is listed in the following national inventories:

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Country	National inventories	Status
AU	AICS	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
РН	PICCS	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed
US	TSCA	substance is listed

Australian Inventory of Chemical Substances
List of Existing and New Chemical Substances (CSCL-ENCS)
Domestic Substances List (DSL)
EC Substance Inventory (EİNECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China
National Inventory of Chemical Substances
Korea Existing Chémicals Inventory
New Zealand Inventory of Chemicals
Philippine Inventory of Chemicals and Chemical Substances
REAĊH registered substances
Taiwan Chemical Substance Inventory
Toxic Substance Control Act

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

# **SECTION 16: Other information**

# Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Wa-terways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Carc.	carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
DGR	Dangerous Goods Regulations (see IATA/DGR)
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" developed by the United Nations
ΙΑΤΑ	International Air Transport Association



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Abbr.	Descriptions of used abbreviations
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
vPvB	very Persistent and very Bioaccumulative

### Key literature references and sources for data

- UN Recommendations on the Transport of Dangerous Good
- Dangerous Goods Regulations (DGR) for the air transport (IATA)
- International Maritime Dangerous Goods Code (IMDG)

### List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H341	suspected of causing genetic defects
H350	may cause cancer
H361f	suspected of damaging fertility

### Disclaimer

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.