

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

### 1.1 Product identifier

Product name	PHENOLPHTHALEIN INDICATOR
CAS-No.	77-09-8
Product code	AR1256

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

Identified uses	Chemical for analysis and production.
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### 1.3 Details of the manufacturer of the safety data sheet

Manufacturer	RCI LABSCAN LIMITED. 24 Rama 1 Road, Pathumwan, Bangkok 10330 Thailand
Telephone number	(662) 613-7911-4
Fax number	(662) 613-7915

### 1.4 Emergency Telephone Number

Emergency phone	(662) 613-7911-4
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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Skin irritation (Category 2), H315  
Germ cell mutagenicity (Category 2), H341  
Carcinogenicity (Category 1B), H350  
Reproductive toxicity (Category 2), H361f  
For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 Label elements

#### Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger

Hazard statement(s)

H315	Causes skin irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H361f	Suspected of damaging fertility or the unborn child.

Precautionary statement(s)

P203	Obtain, read and follow all safety instructions before use.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352	IF ON SKIN: Wash with plenty water.
P318	IF exposed or concerned: Get medical advice.
P332 + P317	If skin irritation occurs: Get medical help.

## 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Synonyms 3,3-Bis(4-hydroxyphenyl)-1(3H)-isobenzofuranone, 3,3-Bis(p-hydroxyphenyl)phthalide.

CAS-No	EC-No	EC-Index-No	Formula	Molecular Weight	Weight %
77-09-8	201-004-7	604-076-00-1	C <sub>20</sub> H <sub>14</sub> O <sub>4</sub>	318.32 g/mol	<=100

### Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Concentration	Classification
<b>Phenolphthalein indicator</b>		
CAS-No 77-09-8 EC-No 201-004-7 EC-Index-No 604-076-00-1	<=100%	Skin irritation (Category 2), H315 Germ cell mutagenicity (Category 2), H341 Carcinogenicity (Category 1B), H350 Reproductive toxicity (Category 2), H361f

For the full text of the H-Statements mentioned in this Section, see Section 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Move to fresh air in case of accidental inhalation of dust.
Skin contact	Remove contaminated clothing and wash affected skin with soap and water.
Eye contact	If the substance has got into the eyes, immediately wash out with plenty of water at least 15 minutes. Obtain medical attention.
Ingestion	Rinse mouth. After swallowing make victim drink water (two glasses at the most), call in physician.

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

The most important known symptoms and effects are described in section 2.2 and section 11

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

Not Available

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Extinguishing with carbon dioxide, dry chemical, foam or water spray.

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

Combustible. Development of hazardous combustion gases or vapors possible in the event of fire. The following may develop in event of fire: carbon oxides.

### 5.3 Advice for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Avoid contact with skin and wear suitable protective clothing.

### 5.4 Further information

Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or ground water.

## SECTION 6: Accidental release measures

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

Avoid generation of dusts; do not inhale dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protective equipment see **Section 8**.

### 6.2 Environmental precautions

Do not allow to enter drinking water and sewerage system.

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

Carefully sweep up, gather and remove. Avoid generation of dusts. Keep in suitable, closed containers for disposal. Clean up affected area.

### 6.4 Reference to other sections

For disposal see **Section 13**.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Provision of good ventilation in the working area. Do not leave container open. Avoid spillage. Avoid rising dust.

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

Keep tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight and away from heat, water, moisture and incompatible materials.

**Storage class 6.1D (TRGS 510);** Non-combustible substances of acute toxicity, category 3/ hazardous substances that are toxic or produce chronic effects.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

The product should only be used in ventilation hoods and fans.

#### Individual protection measures (Personal protective equipment, PPE)

##### Eye/face protection

Goggles giving complete protection to eyes.

##### Skin protection

Chemical resistant apron / corrosive protective clothing, heavy duty work shoes.

Handle with gloves

- Full contact wears gloves from nitrile rubber material.
- Splash contact wears gloves from nitrile rubber material.

The select protective gloves have to satisfy the specifications of EU Directive 89/686 EEC and standard EN 374 derived from it.

##### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Required when dusts are generated filter P3 (EN 143) or use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Environmental exposure controls**

Prevent liquid entering sewers, basements and workpits.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Physical State	Solid
Color	White
Odour	Odorless
Odour Threshold	Not Available
pH	Not Available
Melting point/range	258-261 °C
Boiling point/range	>450 °C
Flash point	Not Available
Evaporation rate	Not Available
Flammability (solid, gas)	Not Available
Explosion limits: lower	Not Available
upper	Not Available
Vapor Pressure	Not Available
Relative Vapor Density	Not Available
Density	1.30 g/cm <sup>3</sup> at 20 °C
Bulk density:	~350-450 kg/m <sup>3</sup>
Water solubility	3.36 mg/l at 20 °C
Partition coefficient (n-octanol/water)	log Pow: 0.9
Auto-Ignition temperature	Not Available
Decomposition Temperature	Not Available
Viscosity	Not Available
Explosive properties	Not Explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

Not Available

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

The substance can react dangerously with strong oxidizing agent.

**10.4 Conditions to avoid**

Strong heating

**10.5 Incompatible materials**

Strong oxidizing agent

**10.6 Hazardous decomposition products**

Carbon oxides (Hazardous decomposition products from under fire condition).

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not Available

#### Skin corrosion/irritation

Irritation

#### Serious eye damage/eye irritation

Not Available

#### Respiratory or skin sensitization

Not Available

#### Germ cell mutagenicity

Mutagenicity (mammal cell test): micronucleus (mouse) is positive.  
Ames test with Salmonella typhimurium is negative.

#### Carcinogenicity

May cause cancer.

#### Reproductive toxicity

Suspected of damaging fertility or the unborn child.

#### Specific target organ toxicity (STOT) - single exposure

Not Available

#### Specific target organ toxicity (STOT) - repeated exposure

Not Available

#### Aspiration hazard

Not Available

#### Further information

After uptake of large quantities: Nausea, vomiting, gastrointestinal disturbance, fever, cardiovascular disorders, CNS disorders.

The substance has a laxative effect.

The product should be handled with the care usual when dealing with chemicals.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to daphnia

EC<sub>50</sub> Daphnia magna : 4.34 mg/l/48 h.

and other aquatic invertebrates

Toxicity to algae

EbC<sub>50</sub> Desmodesmus subspicatus: 2.5 mg/l/72 h

### 12.2 Persistence and degradability

Biodegradability

Not Available

### 12.3 Bioaccumulative potential

Partition coefficient (n-octanol/water)

log Pow: 0.9

No bioaccumulation is to be expected (log Pow <1).

### 12.4 Mobility in soil

Not Available

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

Do not allow to enter waters, waste water or soil.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding law and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste or burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

**Contaminated packaging**

Disposal in compliance with official regulations. Handle contaminated packaging as hazardous waste in the same way of the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

**SECTION 14: Transport information**

Not subject to transport regulations.

**SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

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

Not Available

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

**SECTION 16: Other information****Recommended restrictions**

Take notice of labels and safety data sheets for the working.

**Reference**

Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Labelling according to EC Directives 67/548 EEC and Regulation (EC) No 1272/2008.

Transportation information according to Recommendations on the Transport of Dangerous Goods, Model Regulations. Twelfth revised edition. United Nations.

Institute for Occupational Safety and Health of the German Social Accident Insurance in Sankt Augustin/Germany, Source: IFA for Databases on hazardous substances (GESTIS).

**Further information**

Contact to RCI Labscan Limited.

**Revision Date**30/06/2025

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