



## SAFETY DATA SHEET

Creation Date 25-Nov-2009

Revision Date 28-May-2014

Revision Number 1

### 1. Identification

**Product Name** Phenolphthalein

**Cat No. :** AC417180000; AC417180025; AC417180026; AC417181000; AC417185000

**Synonyms** 3,3-Bis(4-Hydroxyphenyl)-1(3H)-Isobenzofuranone; 3,3-Bis(p-Hydroxyphenyl)Phthalide

**Recommended Use** Laboratory chemicals.

**Uses advised against** No Information available

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

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

**Entity / Business Name**  
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

**Classification**

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

|                                                      |            |
|------------------------------------------------------|------------|
| Germ Cell Mutagenicity                               | Category 2 |
| Carcinogenicity                                      | Category 2 |
| Reproductive Toxicity                                | Category 2 |
| Specific target organ toxicity - (repeated exposure) | Category 2 |
| Target Organs - Kidney.                              |            |

**Label Elements**

**Signal Word**  
Danger

**Hazard Statements**  
Suspected of causing genetic defects  
Suspected of causing cancer  
Suspected of damaging fertility  
May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements****Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Do not breathe dust/fume/gas/mist/vapors/spray

**Response**

IF exposed or concerned: Get medical attention/advice

**Storage**

Store locked up

**Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

None identified

**Other hazards**

WARNING! This product contains a chemical known in the State of California to cause cancer.

### 3. Composition / information on ingredients

| Component       | CAS-No  | Weight % |
|-----------------|---------|----------|
| Phenolphthalein | 77-09-8 | >95      |

### 4. First-aid measures

|                                        |                                                                                                                                                                                                                                            |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Contact</b>                     | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.                                                                                                                         |
| <b>Skin Contact</b>                    | Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.                                                                                                                                               |
| <b>Inhalation</b>                      | Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Obtain medical attention. |
| <b>Ingestion</b>                       | Do not induce vomiting. Call a physician or Poison Control Center immediately.                                                                                                                                                             |
| <b>Most important symptoms/effects</b> | No information available.                                                                                                                                                                                                                  |
| <b>Notes to Physician</b>              | Treat symptomatically                                                                                                                                                                                                                      |

### 5. Fire-fighting measures

|                                       |                                                                          |
|---------------------------------------|--------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>   | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| <b>Unsuitable Extinguishing Media</b> | No information available                                                 |
| <b>Flash Point</b>                    | No information available                                                 |
| <b>Method -</b>                       | No information available                                                 |
| <b>Autoignition Temperature</b>       | No information available                                                 |
| <b>Explosion Limits</b>               |                                                                          |
| <b>Upper</b>                          | No data available                                                        |

|                                         |                          |
|-----------------------------------------|--------------------------|
| <b>Lower</b>                            | No data available        |
| <b>Sensitivity to Mechanical Impact</b> | No information available |
| <b>Sensitivity to Static Discharge</b>  | No information available |

**Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

**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. Thermal decomposition can lead to release of irritating gases and vapors.

**NFPA**

**Health**  
2 \*

**Flammability**  
1

**Instability**  
0

**Physical hazards**  
N/A

**6. Accidental release measures****Personal Precautions**

Ensure adequate ventilation. Use personal protective equipment. Evacuate personnel to safe areas. Avoid dust formation.

**Environmental Precautions**

Should not be released into the environment. See Section 12 for additional ecological information.

**Methods for Containment and Clean Up**

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

**7. Handling and storage****Handling**

Use only under a chemical fume hood. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe vapors/dust. Do not ingest.

**Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place.

**8. Exposure controls / personal protection****Exposure Guidelines**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering Measures**

Use only under a chemical fume hood. 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                                   | Odorless                                       |
| Odor Threshold                         | No information available                       |
| pH                                     | No information available                       |
| Melting Point/Range                    | 258 - 263 °C / 496.4 - 505.4 °F                |
| Boiling Point/Range                    | No information available                       |
| Flash Point                            | No information available                       |
| Evaporation Rate                       | negligible                                     |
| Flammability (solid,gas)               | No information available                       |
| Flammability or explosive limits       |                                                |
| Upper                                  | No data available                              |
| Lower                                  | No data available                              |
| Vapor Pressure                         | negligible                                     |
| Vapor Density                          | No information available                       |
| Relative Density                       | No information available                       |
| Solubility                             | Insoluble in water                             |
| Partition coefficient; n-octanol/water | No data available                              |
| Autoignition Temperature               | No information available                       |
| Decomposition Temperature              | No information available                       |
| Viscosity                              | No information available                       |
| Molecular Formula                      | C <sub>20</sub> H <sub>14</sub> O <sub>4</sub> |
| Molecular Weight                       | 318.32                                         |

## 10. Stability and reactivity

|                                  |                                                           |
|----------------------------------|-----------------------------------------------------------|
| Reactive Hazard                  | None known, based on information available                |
| Stability                        | Stable under normal conditions.                           |
| Conditions to Avoid              | Incompatible products. Excess heat. Avoid dust formation. |
| Incompatible Materials           | Strong oxidizing agents                                   |
| Hazardous Decomposition Products | Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )   |
| Hazardous Polymerization         | Hazardous polymerization does not occur.                  |
| Hazardous Reactions              | None under normal processing.                             |

## 11. Toxicological information

### Acute Toxicity

|                                                                                                          |                                                     |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Product Information                                                                                      | See actual entry in RTECS for complete information. |
| Component Information                                                                                    |                                                     |
| Toxicologically Synergistic Products                                                                     | No information available                            |
| <b><u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u></b> |                                                     |

|                 |                                                                                          |
|-----------------|------------------------------------------------------------------------------------------|
| Irritation      | May cause eye, skin, and respiratory tract irritation                                    |
| Sensitization   | No information available                                                                 |
| Carcinogenicity | The table below indicates whether each agency has listed any ingredient as a carcinogen. |

| Component       | CAS-No  | IARC     | NTP                    | ACGIH      | OSHA | Mexico     |
|-----------------|---------|----------|------------------------|------------|------|------------|
| Phenolphthalein | 77-09-8 | Group 2B | Reasonably Anticipated | Not listed | X    | Not listed |

IARC: (International Agency for Research on Cancer)

IARC: (International Agency for Research on Cancer)  
 Group 1 - Carcinogenic to Humans  
 Group 2A - Probably Carcinogenic to Humans

NTP: (National Toxicity Program)

Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

|                                                   |                                                                             |
|---------------------------------------------------|-----------------------------------------------------------------------------|
| <b>Mutagenic Effects</b>                          | Mutagenic effects have occurred in humans.                                  |
| <b>Reproductive Effects</b>                       | Experiments have shown reproductive toxicity effects on laboratory animals. |
| <b>Developmental Effects</b>                      | Possible risk of harm to the unborn child.                                  |
| <b>Teratogenicity</b>                             | No information available.                                                   |
| <b>STOT - single exposure</b>                     | None known                                                                  |
| <b>STOT - repeated exposure</b>                   | Kidney                                                                      |
| <b>Aspiration hazard</b>                          | No information available                                                    |
| <b>Symptoms / effects, both acute and delayed</b> | No information available                                                    |
| <b>Endocrine Disruptor Information</b>            |                                                                             |

| Component       | EU - Endocrine Disruptors Candidate List | EU - Endocrine Disruptors - Evaluated Substances | Japan - Endocrine Disruptor Information |
|-----------------|------------------------------------------|--------------------------------------------------|-----------------------------------------|
| Phenolphthalein | Group III Chemical                       | Not applicable                                   | Not applicable                          |

**Other Adverse Effects** See actual entry in RTECS for complete information.

## 12. Ecological information

### Ecotoxicity

Do not empty into drains.

**Persistence and Degradability** No information available  
**Bioaccumulation/ Accumulation** No information available.

**Mobility** No information available.

| Component       | log Pow |
|-----------------|---------|
| Phenolphthalein | 2.41    |

## 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  
**TDG** Not regulated  
**IATA** Not regulated  
**IMDG/IMO** Not regulated

## 15. Regulatory information

### International Inventories

| Component       | TSCA | DSL | NDSL | EINECS    | ELINCS | NLP | PICCS | ENCS | AICS | IECSC | KECL |
|-----------------|------|-----|------|-----------|--------|-----|-------|------|------|-------|------|
| Phenolphthalein | X    | X   | -    | 201-004-7 | -      |     | X     | X    | X    | X     | X    |

#### Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

| Component       | CAS-No  | Weight % | SARA 313 - Threshold Values % |
|-----------------|---------|----------|-------------------------------|
| Phenolphthalein | 77-09-8 | >95      | 0.1                           |

#### SARA 311/312 Hazardous Categorization

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | No  |
| Chronic Health Hazard             | Yes |
| Fire Hazard                       | No  |
| Sudden Release of Pressure Hazard | No  |
| Reactive Hazard                   | No  |

Clean Water Act Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration  
Not applicable

CERCLA  
Not applicable

California Proposition 65 This product contains the following Proposition 65 chemicals:

| Component       | CAS-No  | California Prop. 65 | Prop 65 NSRL | Category   |
|-----------------|---------|---------------------|--------------|------------|
| Phenolphthalein | 77-09-8 | Carcinogen          | -            | Carcinogen |

#### State Right-to-Know

| Component       | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|-----------------|---------------|------------|--------------|----------|--------------|
| Phenolphthalein | -             | X          | -            | X        | -            |

#### U.S. Department of Transportation

|                             |   |
|-----------------------------|---|
| Reportable Quantity (RQ):   | N |
| DOT Marine Pollutant        | N |
| DOT Severe Marine Pollutant | N |

#### U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

#### Other International Regulations

Mexico - Grade No information available

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

D2A Very toxic materials



## 16. Other information

**Prepared By**

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**Creation Date**

25-Nov-2009

**Revision Date**

28-May-2014

**Print Date**

28-May-2014

**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 on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of SDS**