

# O-PHTHALALDEHYDE AR MSDS

CAS No: 643-79-8 MSDS

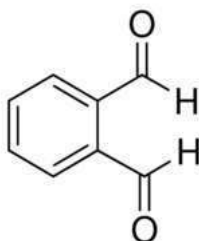


## MATERIAL SAFETY DATA SHEET (MSDS)

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

#### 1.1. Product identifier

Product form : Substance  
:  
CAS No : 643-79-8  
Product code : B-02024  
Chemical structure :



Synonyms : Phthaldialdehyde / OPA / Benzene-1,2-dicarboxaldehyde / o-Phthalic dicarboxaldehyde

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

##### 1.2.2. Uses advised against

No additional information available

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

Bio-Chem Chemicals  
5455, Nicholson Road Science Market,  
Ambala Cantt. 133001 Haryana (India)  
+91-82952 41953  
[info@biofinechemical.com](mailto:info@biofinechemical.com) - [www.biofinechemical.com](http://www.biofinechemical.com)

#### 1.4. Emergency telephone number

Emergency number : +91 99921 51495 (10.00am - 06.30pm) (Office Hours)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Acute toxicity (oral), H301  
Category 3  
Skin corrosion/irritation, H314  
Category 1B  
Sensitisation — Skin, H317  
category 1  
Hazardous to the aquatic H400  
environment — Acute

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Hazard, Category 1

Full text of classification categories and H statements : see section 16

### Classification according to Directive 67/548/EEC or 1999/45/EC

T; R25

C; R34

R43

N; R50

Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS06

GHS05

GHS09

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H301 - Toxic if swallowed  
H314 - Causes severe skin burns and eye damage  
H317 - May cause an allergic skin reaction  
H400 - Very toxic to aquatic life

Precautionary statements (CLP) :

P273 - Avoid release to the environment  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor/physician

## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Name : o-PHTHALALDEHYDE AR

CAS No : 643-79-8

Full text of R- and H-phrases: see section 16

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### **3.2. Mixture**

Not applicable

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see ... on this label). Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
- First-aid measures after ingestion : Rinse mouth. Immediately call a POISON CENTER or doctor/physician. Specific treatment (see ... on this label). Do NOT induce vomiting.

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

- Symptoms/injuries : Causes severe skin burns and eye damage.
- Symptoms/injuries after inhalation : May cause an allergic skin reaction.
- Symptoms/injuries after ingestion : Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

- Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).
- Unsuitable extinguishing media : Do not use a heavy water stream.

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

No additional information available

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

No additional information available

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

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

#### **6.1.1. For non-emergency personnel**

- Emergency procedures : Evacuate unnecessary personnel.

#### **6.1.2. For emergency responders**

- Protective equipment : Use personal protective equipment as required.
- Emergency procedures : Stop release.

### **6.2. Environmental precautions**

Avoid release to the environment.

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

- Methods for cleaning up : Clear up rapidly by scoop or vacuum.

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

No additional information available

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

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

Precautions for safe handling : Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash ... thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

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

Technical measures : Comply with applicable regulations.

Storage conditions : Store in original container. Keep container tightly closed. Store in a dry place. Protect from moisture.

#### **7.3. Specific end use(s)**

No additional information available

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

#### **8.1. Control parameters**

No additional information available

#### **8.2. Exposure controls**

Hand protection : protective gloves

Eye protection : Chemical goggles or face shield

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear respiratory protection

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

#### **9.1. Information on basic physical and chemical properties**

Physical state : Solid

Molecular mass : 134.14 g/mol

Colour : Pale yellow crystal.

Odour : No data available

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 55 - 58

Freezing point : No data available

Boiling point : 83 °C

Flash point : 110 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

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Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: Insoluble in water
Log Pow	: 0.934
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### **9.2. Other information**

No additional information available

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

Thermal decomposition generates : Corrosive vapours.

### **10.2. Chemical stability**

Stable under normal conditions.

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

No additional information available

### **10.4. Conditions to avoid**

Direct sunlight. Air contact. Moisture.

### **10.5. Incompatible materials**

No additional information available

### **10.6. Hazardous decomposition products**

Thermal decomposition generates : Corrosive vapours.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

Acute toxicity : Oral: Toxic if swallowed.

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Serious eye damage, category 1, implicit

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

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Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Toxic if swallowed.

### **SECTION 12: Ecological information**

#### **12.1. Toxicity**

Ecology - water : Very toxic to aquatic life.

#### **12.2. Persistence and degradability**

No additional information available

#### **12.3. Bioaccumulative potential**

<b>o-PHTHALALDEHYDE AR (643-79-8)</b>	
Log Pow	0.934

#### **12.4. Mobility in soil**

No additional information available

#### **12.5. Results of PBT and vPvB assessment**

No additional information available

#### **12.6. Other adverse effects**

No additional information available

### **SECTION 13: Disposal considerations**

#### **13.1. Waste treatment methods**

Product/Packaging disposal recommendations : Dispose of contents/container to ...

Ecology - waste materials : Hazardous waste due to toxicity.

### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

#### **14.1. UN number**

UN-No. (ADR) : 2923

UN-No. (IMDG) : 2923

UN-No.(IATA) : 2923

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UN-No.(ADN) : 2923  
UN-No. (RID) : 2923

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : CORROSIVE SOLID, TOXIC, N.O.S.  
Proper Shipping Name (IMDG) : CORROSIVE SOLID, TOXIC, N.O.S.  
Proper Shipping Name (IATA) : CORROSIVE SOLID, TOXIC, N.O.S.  
Proper Shipping Name (ADN) : CORROSIVE SOLID, TOXIC, N.O.S.  
Proper Shipping Name (RID) : CORROSIVE SOLID, TOXIC, N.O.S.  
Transport document description (ADR) : UN 2923 CORROSIVE SOLID, TOXIC, N.O.S., 8 (6.1), II, (E), ENVIRONMENTALLY HAZARDOUS  
Transport document description (IMDG) : UN 2923 CORROSIVE SOLID, TOXIC, N.O.S., 8 (6.1), II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS  
Transport document description (IATA) : UN 2923 CORROSIVE SOLID, TOXIC, N.O.S., 8 (6.1), II, ENVIRONMENTALLY HAZARDOUS  
Transport document description (ADN) : UN 2923 CORROSIVE SOLID, TOXIC, N.O.S., 8 (6.1), II, ENVIRONMENTALLY HAZARDOUS  
Transport document description (RID) : UN 2923 CORROSIVE SOLID, TOXIC, N.O.S., 8 (6.1), II, ENVIRONMENTALLY HAZARDOUS

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 8 (6.1)  
Danger labels (ADR) : 8, 6.1



#### IMDG

Transport hazard class(es) (IMDG) : 8 (6.1)  
Danger labels (IMDG) : 8, 6.1



#### IATA

Transport hazard class(es) (IATA) : 8 (6.1)  
Hazard labels (IATA) : 8, 6.1



#### ADN

Transport hazard class(es) (ADN) : 8 (6.1)  
Danger labels (ADN) : 8, 6.1

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### RID

Transport hazard class(es) (RID) : 8 (6.1)

Danger labels (RID) : 8, 6.1



### 14.4. Packing group

Packing group (ADR) : II

Packing group (IMDG) : II

Packing group (IATA) : II

Packing group (ADN) : II

Packing group (RID) : II

### 14.5. Environmental hazards

Dangerous for the environment : Yes

Marine pollutant : Yes

Other information : No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : CT2

Special provision (ADR) : 274

Limited quantities (ADR) : 1kg

Excepted quantities (ADR) : E2

Packing instructions (ADR) : P002, IBC08

Special packing provisions (ADR) : B4

Mixed packing provisions (ADR) : MP10

Portable tank and bulk container instructions (ADR) : T3

Portable tank and bulk container special provisions (ADR) : TP33

Tank code (ADR) : SGAN, L4BN

Vehicle for tank carriage : AT

Transport category (ADR) : 2

Special provisions for carriage - Packages (ADR) : V11

Special provisions for carriage - Loading, unloading and handling (ADR) : CV13, CV28

Hazard identification number (Kemler No.) : 86

Orange plates :



Tunnel restriction code (ADR) : E

EAC code : 2X



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### **- Transport by sea**

Special provision (IMDG)	: 274
Limited quantities (IMDG)	: 1 kg
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P002
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B2, B4
Tank instructions (IMDG)	: T3
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: B
Stowage and handling (IMDG)	: SW2
MFAG-No	: 154

### **- Air transport**

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y844
PCA limited quantity max net quantity (IATA)	: 5kg
PCA packing instructions (IATA)	: 859
PCA max net quantity (IATA)	: 15kg
CAO packing instructions (IATA)	: 863
CAO max net quantity (IATA)	: 50kg
Special provision (IATA)	: A3
ERG code (IATA)	: 8P

### **- Inland waterway transport**

Classification code (ADN)	: CT2
Special provisions (ADN)	: 274, 802
Limited quantities (ADN)	: 1 kg
Excepted quantities (ADN)	: E2
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 2

### **- Rail transport**

Classification code (RID)	: CT2
Special provision (RID)	: 274
Limited quantities (RID)	: 1kg
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P002, IBC08
Special packing provisions (RID)	: B4
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T3
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAN, L4BN
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	: W11
Special provisions for carriage – Loading and unloading (RID)	: CW13, CW28
Colis express (express parcels) (RID)	: CE10
Hazard identification number (RID)	: 86

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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

o-PHTHALALDEHYDE AR is not on the REACH Candidate List

o-PHTHALALDEHYDE AR is not on the REACH Annex XIV List

#### 15.1.2. National regulations

##### Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

##### Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

#### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1	Sensitisation — Skin, category 1
H301	Toxic if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H400	Very toxic to aquatic life
R25	Toxic if swallowed
R34	Causes burns
R43	May cause sensitisation by skin contact
R50	Very toxic to aquatic organisms
C	Corrosive
N	Dangerous for the environment

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T	Toxic
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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*