

FCAT# PI34006

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

**Product code** 34006  
**Product name** OPD Tablets(5 mg/tablet);

**Company/undertaking identification**

Life Technologies Corporation  
5781 Van Allen Way  
PO Box 6482  
Carlsbad, CA 92008  
+1 760 603 7200

Life Technologies  
5250 Mainway Drive  
Burlington, ONT  
CANADA L7L 6A4  
800/263-6236

Thermo Fisher Scientific  
Pierce Biotechnology  
P.O. Box 117  
Rockford, IL 61105  
United States  
1.815.968.0747 or  
1.800.874.3723

**24 hour Emergency Response:**

866-536-0631  
301-431-8585  
Outside of the U.S. +1-301-431-8585

**Country specific Emergency Number (if available):**

CHEMTREC Brazil (Rio De Janeiro) +(55)-2139581449 (português)

**Use as laboratory reagent. Scientific research and development.**

**SECTION 2: Hazards identification****GHS - Classification****Signal Word**

DANGER





### **Health hazards**

Acute oral toxicity	Category 4
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 2
Mutagenicity	Mutagenic category 2

### **Physical hazards**

Not classified

### **Hazard Statements**

- H302 - Harmful if swallowed
- H317 - May cause an allergic skin reaction
- H318 - Causes serious eye damage
- H341 - Suspected of causing genetic defects if inhaled
- H351 - Suspected of causing cancer if inhaled
- H411 - Toxic to aquatic life with long lasting effects

### **Precautionary Statements**

- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
- P201 - Obtain special instructions before use
- P273 - Avoid release to the environment
- P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- P264 - Wash hands thoroughly after handling

### **Principle Routes of Exposure**

#### **Potential Health Effects**

- eyes** Risk of serious damage to eyes.
- Skin** May cause skin irritation in susceptible persons.
- inhalation** Harmful by inhalation.
- Ingestion** Harmful if swallowed.

#### **Specific effects**

- Carcinogenic effects** None.
- Mutagenic effects** May cause heritable genetic damage.
- Reproductive toxicity** None.
- Sensitization** None.
  
- Target Organ Effects** None.

### **HMIS**

Health	4 * Chronic Hazard
Flammability	0
Reactivity	0

### SECTION 3: Composition/information on ingredients

Component	CAS-No	EINECS-No	Weight %
1,2-Benzenediamine, dihydrochloride 615-28-1 ( 1-5 )	615-28-1	210-418-7	1-5
Sodium metabisulfite 7681-57-4 ( 1-5 )	7681-57-4	231-673-0	1-5

We recommend handling all chemicals with caution.

### SECTION 4: First aid measures

<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Take off all contaminated clothing and wash it before reuse. Immediate medical attention is required.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
<b>Ingestion</b>	Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
<b>inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately.

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

H302 - Harmful if swallowed, H317 - May cause an allergic skin reaction, H318 - Causes serious eye damage, H341 - Suspected of causing genetic defects if inhaled, H351 - Suspected of causing cancer if inhaled, H411 - Toxic to aquatic life with long lasting effects

**Notes to Physician**                      Treat symptomatically.

### SECTION 5: Firefighting measures

<b>Suitable extinguishing media</b>	Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical.
<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus and protective suit.
<b>Specific hazards arising from the chemical</b>	Not known

### SECTION 6: Accidental release measures

**Personal precautions**                      Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protection equipment.

**Methods for cleaning up**                      Take up mechanically, placing in appropriate containers for disposal.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

See Section 12 for more information.

### SECTION 7: Handling and storage

**Handling**    Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

**Storage**    Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

## SECTION 8: Exposure controls/personal protection

### Exposure Limits

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
1,2-Benzenediamine, dihydrochloride	None	None	None	None
Sodium metabisulfite	None	None	5 mg/m <sup>3</sup>	None

### Engineering measures

Ensure adequate ventilation, especially in confined areas.

### Personal Protective Equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

#### **Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

#### **Hand protection**

Impervious gloves.

#### **Eye protection**

Wear safety glasses with side shields (or goggles).

#### **Skin and Body Protection**

Lightweight protective clothing.

#### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

### Environmental exposure controls

Prevent product from entering drains. Do not allow material to contaminate ground water system.

## SECTION 9: Physical and chemical properties

### General information

<b>Form</b>	solid	
<b>Appearance</b>	No information available	
<b>Odor</b>	Mixture has not been tested	
<b>Odor Threshold</b>	Mixture has not been tested	
<b>Boiling point / boiling range</b>	°C No data available	°F No data available
<b>Melting point / melting range</b>	°C No data available	°F No data available
<b>flash point</b>	°C No data available	°F No data available
<b>Autoignition Temperature</b>	°C No data available	°F No data available
<b>Evaporation rate</b>	No data available	
<b>Flammability (solid, gas)</b>	No data available	
<b>Oxidizing properties</b>	Mixture has not been tested	
<b>Water solubility</b>	No data available	
<b>Upper explosion limit</b>	No data available	
<b>Lower explosion limit</b>	No data available	
<b>Partition coefficient: n-octanol/water</b>	No data available	
<b>Vapor Pressure</b>	No data available	
<b>vapor density</b>	No data available	
<b>Viscosity</b>	Mixture has not been tested	
<b>pH value</b>	No data available	

## SECTION 10: Stability and reactivity

### **Stability**

Stable under normal conditions.

<b>Materials to avoid</b>	No information available.
<b>Possibility of hazardous reactions</b>	Hazardous reaction has not been reported
<b>Hazardous decomposition products</b>	No information available.
<b>polymerization</b>	None under normal processing.
<b>Conditions to avoid</b>	None under normal processing.

## SECTION 11: Toxicological information

### Acute Toxicity

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
1,2-Benzenediamine, dihydrochloride	No data available	No data available	No data available
Sodium metabisulfite	= 1310 mg/kg (Rat)	No data available	No data available

### Principle Routes of Exposure

#### Potential Health Effects

<b>eyes</b>	Risk of serious damage to eyes.
<b>Skin</b>	May cause skin irritation in susceptible persons.
<b>inhalation</b>	Harmful by inhalation.
<b>Ingestion</b>	Harmful if swallowed.
<b>Carcinogenic effects</b>	None.
<b>Mutagenic effects</b>	May cause heritable genetic damage.
<b>Reproductive toxicity</b>	None.
<b>Sensitization</b>	None.
<b>Target Organ Effects</b>	None

## SECTION 12: Ecological information

<b>Ecotoxicity</b>	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Chronic aquatic toxicity</b>	Category 2.
<b>Mobility</b>	see log Pow.
<b>Biodegradation</b>	No information available.
<b>Bioaccumulation</b>	No information available.

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
<b>Sodium metabisulfite</b>	Desmodesmus subspicatus EC50=48 mg/L (72 h) Desmodesmus subspicatus EC50=40 mg/L (96 h)	Daphnia magna Straus EC50=89 mg/L (24 h)			logPow-3.7

## SECTION 13: Disposal considerations

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Dispose of contents/containers in accordance with local regulations.

## SECTION 14: Transport information

### IATA

<b>Proper Shipping Name</b>	No dangerous good in sense of these transport regulations
<b>Hazard Class</b>	None
<b>Subsidiary class</b>	None
<b>Packing group</b>	None
<b>UN-No</b>	None
<b>Environmental hazards</b>	None

## SECTION 15: Regulatory information

<b>Component</b>	<b>US TSCA</b>
1,2-Benzenediamine, dihydrochloride 615-28-1 ( 1-5 )	Listed
Sodium metabisulfite 7681-57-4 ( 1-5 )	Listed

### US Federal Regulations

#### **SARA 313**

This product contains the following toxic chemical(s) subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories. Please note that if you repackage, or otherwise redistribute, this product to industrial customers, a notice similar to this one should be sent to those customers:.

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight %</u>	<u>SARA 313 - Threshold Values</u>
1,2-Benzenediamine, dihydrochloride	615-28-1	1-5	1.0

#### **Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contains HAPs.

### US State Regulations

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals.

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight %</u>	<u>Category</u>
1,2-Benzenediamine, dihydrochloride	615-28-1	1-5	Carcinogen

#### **WHMIS Hazard Class**

D2A - Very toxic materials



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.

## SECTION 16: Other information

**Reason for revision**

SDS sections updated.

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Use as laboratory reagent. Scientific research and development.

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**End of Safety Data Sheet**