

Material Safety Data Sheet

MS 52231
Product: CIDEX® OPA Concentrate
Rev.: C
Issue date: 9/27/2010

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Supplier:
 Advanced Sterilization Products
 33 Technology Drive
 Irvine, CA 92618

Customer service telephone: 1-800-755-5900
Emergency telephone number: 1-877-208-6653 - 24 hrs
Product name: CIDEX OPA Concentrate

2. COMPOSITION/INFORMATION ON INGREDIENTS

The ingredients at their given percentages in this product are not considered hazardous to your health.

Components	CAS Number	Weight %	ASP - OEL Data (TWA - 8 hr)	ASP - OEL Data (STEL):	ASP - OEL Data (Ceiling Limit Value):
Ethyl alcohol, denatured	64-17-5	19-21	Not Determined	Not Determined	Not Determined
Ortho-phthalaldehyde	643-79-8	5.5-6.2	19 µg/m ³	148 µg/m ³	Not Determined

3. HAZARDS IDENTIFICATION

Emergency overview: Flammable.

Properties affecting health: Toxic if swallowed.
 Irritating to eyes, skin and respiratory tract.
 May cause sensitization.

Principle routes of exposure:

Eye contact: Irritating to eyes causing conjunctivitis, stinging or excessive tearing.

Skin contact: Non-toxic by dermal route. Severe skin irritant. Repeated contact may cause sensitization. Contact with skin may cause temporary staining.

Ingestion: Not a likely route of exposure. Toxic if swallowed.

Inhalation: Irritating to nose, throat and respiratory tract.

Hazard information:

Target organ effects: None
Reproductive effects: Unknown on product

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Mutagenic effects: Not mutagenic in the Ames assay. .
Sensitization: May cause sensitization.

Carcinogenicity rating:

Components	CAS Number	ASP:	NTP:	IARC:	California Proposition 65 List:
Ethyl alcohol, denatured	64-17-5	Not Determined	Not Determined	Listed.	Not Listed
Ortho-phthalaldehyde	643-79-8	Not Determined	Not Determined	Not Determined	Not Listed

Signs and symptoms: None

Medical conditions aggravated by exposure: None known

4. FIRST AID MEASURES

Eye contact: In the case of contact with eyes, rinse immediately with plenty of water for 15 minutes and seek medical attention.

Ingestion: If ingested, seek medical attention immediately and show the label.

Inhalation: Move to fresh air immediately. If experiencing difficulty breathing, seek medical attention.

Skin contact: After contact with skin, wash immediately with plenty of water for 15 minutes and seek medical attention if irritation occurs.

Protection of first-aiders: No information available.

Notes to physician: None

5. FIRE-FIGHTING MEASURES

Flash point (°F): 90
Flash point (°C): 32.2
Boiling point (°F) 190
Boiling point (°C) 87.8
Autoignition temperature: Unknown
Flammable limits in air - lower (%): Unknown
NFPA rating: Health: 1 Flammability: 3 Reactivity: 0
Fire fighting information:

Suitable extinguishing media: Use any extinguishing media that is suitable for the surrounding fire.

Extinguishing media which must not be used for safety reasons: None

Specific methods: None

Special protective equipment for firefighters: Wear self-contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products: None known

Explosivity: None

Explosion limits:

lower: None
upper: None

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear eye and skin protection while handling material for clean-up. Avoid breathing vapors and/or mist.
Environmental precautions:	Prevent material from entering the sewer system or waterways.
Methods for cleaning up:	Wipe up with absorbent material (e.g. cloth, fleece). Dispose of in accordance with local state and federal regulations.

7. HANDLING AND STORAGE

Handling:

Technical measures/precautions:	Use in well ventilated area and use with appropriate exhaust ventilation.
Safe handling advice:	Wear appropriate personal protection. Avoid contact with skin, clothing and eyes. Remove contaminated clothing and laundry before reuse.

Storage:

Technical measures/storage conditions:	Keep away from heat, spark, and open flame. This product should be stored between 59°F (15°C) and 86°F (30°C). Keep container tightly closed.
Incompatible products:	Avoid contact with strong acids and bases and oxidizing materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Ensure adequate ventilation.
Eye protection:	Wear eye protection.
Hand protection:	Wear chemical resistant gloves.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection:	None required
Other/general protection:	None required

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear
Physical state:	Liquid
Color:	Dark blue
pH:	7.5
Odor:	Alcohol
Boiling temperature (°C):	87.8
Freezing point/range (°C):	Less than 0°C
Density :	0.9896 g/cc
Water solubility:	Soluble in water

10. STABILITY AND REACTIVITY

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Chemical stability:	Stable under recommended storage conditions.
Hazard polymerization:	Hazardous polymerization does not occur.
Hazardous decomposition products:	None known
Materials to avoid:	Strong acids, bases and oxidizing materials.
Conditions to avoid:	Extremes of temperature, direct sunlight, heat, flames and sparks.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Local effects

Oral:	Toxic at a dose of 5000 mg/kg by the oral route in rat.
Dermal:	Acute dermal toxicity is >2000mg/kg by the dermal route.
Eye irritation	Eye irritant.
Skin irritation:	The concentrate was found to be a severe skin irritant when conducted in a primary rabbit skin irritation study. .
Inhalation:	May cause irritation of nose, throat and respiratory tract.

Chronic toxicity

Oral:	Unknown on product
Inhalation:	Unknown on product
Dermal:	Unknown on product

Subchronic toxicity

Oral:	Oral administration of o-phthalaldehyde (active ingredient) to rats for 90 days resulted in a NOEL of 5mg/kg/day.
Dermal:	Unknown on product

Specific effects

Corrosive effects:	Unknown on product
Sensitization:	May elicit an allergic reaction
Target organ effects:	None
Mutagenic effects:	Not mutagenic in Ames test.

Reproductive effects:	Unknown on product
Developmental effects:	Oral administration of o-phthalaldehyde (active ingredient) to pregnant rats indicated that at maternally non-toxic doses (less than 10mg/kg/day) there was no developmental effect.

Carcinogenic effects:	Unknown on product
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12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:	This product has no known eco-toxicological effects.
Aquatic toxicity effects:	The active ingredient o-phthalaldehyde is considered toxic to algae. However upon dilution the activity is reduced.

Mobility:	Unknown on product
Persistence / degradability:	The active ingredient, <i>ortho</i> -phthalaldehyde is not readily biodegradable. .

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Bioaccumulation: Unknown on product
Degradation: Unknown on product

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Waste disposal must be in accordance with appropriate US, Federal, State, Local and International regulations.

Contaminated packaging: None

Methods for cleaning up: Wipe up with absorbent material (e.g. cloth, fleece).

14. TRANSPORT INFORMATION

DOT:

DOT UN-No: Not hazardous
DOT shipping name: Not applicable
Hazard class: Not applicable
Subsidiary risk (hazard class): Not applicable
Packing group: Not applicable
DOT reportable quantity (lbs): Not applicable

IMO/IMDG: See ADR/RID when shipping to EU

ADR/RID:

Hazard class: 9
Packing group: 3
Item: Not applicable
ADR/RID-labels: Not applicable
UN/Id No.: UN 3082
Proper shipping name: Environmentally hazardous substances, Liquid, n.o.s. (ortho-phthalaldehyde)
TREM-card: Not applicable

IATA/ICAO: See ADR/RID when shipping to EU

TDG (Canada):

Status: Not applicable
Packing group: Not applicable

15. REGULATORY INFORMATION

Components	CAS Number	Weight %	ACGIH TLV (TWA - 8hr)	ACGIH TLV (STEL)	ACGIH TLV (Ceiling Limits)
Ethyl alcohol, denatured	64-17-5	19-21	1000 ppm	Not determined	Not determined

Components	CAS Number	Weight %	OSHA (TWA - 8hr)	OSHA (STEL)	OSHA (Ceiling Limits)
Ethyl alcohol, denatured	64-17-5	19-21	1900 mg/m ³ 1000 ppm	Not determined	Not determined

SARA (311, 312) hazard class:

Immediate health: None
Delayed health: None
Fire: None
Sudden Release of Pressure Hazard: None
Reactivity: None

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Components	CAS Number	Weight %	New Jersey RTK List:	Pennsylvania RTK List:	Massachusetts RTK List:	Connecticut Hazardous Material List:	Michigan Critical List:
Ethyl alcohol, denatured	64-17-5	19-21	Substance no. 0844 Listed.	Listed.	Listed.	Listed.	Not applicable

TSCA inventory list: Listed under TSCA: Yes

WHMIS:

WHMIS trade secret: None
WHMIS hazard class: B2 Flammable Liquids

Canada DSL inventory list: Listed on DSL: Yes

Notes:

1. SARA = Superfund Amendments and the Reauthorization Act.
2. CERCLA = Comprehensive Environmental Response, Compensations and Liability Act.
3. FIFRA = Federal Insecticide, Fungicide and Rodenticide Act
4. TSCA = Toxic Substance Control Act
5. WHMIS = Canadian Workplace Hazardous Materials Information System
6. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

This data sheet contains changes from the previous version in section(s):

None

Additional advice None

Literary Reference: None

MSDS format: North American Format - U.S. and Canada
This Material Safety Data Sheet was prepared in accordance with OSHA 29 CFR 1910.1200.

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End of Safety Data Sheet