

# **Material Safety Data Sheet**

**MSDS 007** 

Rev:

Product: CIDEX Plus 28 Day Solution

Issue date: 5/21/07

# 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**: 877-208-6653 - 24 hrs

**Product name:** CIDEXPLUS 28 Day Solution

# 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 %	J&J - OEL Data (TWA - 8 hr)	J&J - OEL Data (STEL):	J&J - OEL Data (Ceiling Limit Value):	J&J - PBOEL
Glutaraldehyde	111-30-8	<5	Not Determined	Not Determined	Not Determined	Not Determined
Polyethylene Glycol	25322-68-3	<20	Not Determined	Not Determined	Not Determined	Not Determined

#### 3. HAZARDS IDENTIFICATION

**Emergency overview:** Not expected to be flammable or be a significant health hazard.

**Properties affecting health:** May cause sensitization by repeated inhalation and skin contact.

Principle routes of exposure:

Oral: Can irritate the tissues of mouth, esophagus, and other tissues of the digestive

system. Symptoms of over exposure can include vomiting, diarrhea and nausea.

**Eye contact:** Risk of serious damage to eyes.

**Skin contact:** May cause skin irritation. May aggravate pre-existing dermatitis.

**Ingestion:** Ingestion of this material may cause oral thrush, nausea, vomiting, epigastric

distress, diarrhea, headache, fatigue, dizziness, insomnia, mental confusion, and

impairment.

**Inhalation:** Inhalation of mist or vapors may be severely irritating to the nose, throat and lungs.

**Hazard information:** 

Target organ effects: None.

**Reproductive effects:** This material is not reported to cause reproductive effects in humans. **Mutagenic effects:** This product is not know to produce mutagenic effects in humans.

**Sensitization:** May cause sensitization by inhalation and skin contact. Glutaraldehyde has been

reported to cause occupational asthma and may aggravate pre-existing asthma,

inflammatory or fibrotic pulmonary disease.

Company: ADVANCED STERLIZATION PRODUCTS Product code: ASPCIDEXPLUS

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Carcinogenicity rating:

Components	CAS Number	J&J:	NTP:	IARC:	California
					Proposition 65 List:
Glutaraldehyde	111-30-8	Not Determined	Not Determined	Not Determined	Not Determined
Polyethylene Glycol	25322-68-3	Not Determined	Not Determined	Not Determined	Not Determined

Signs and symptoms: None.

Medical conditions aggravated by exposure:

Inhalation of vapor may cause asthma-like symptoms (chest discomfort and tightness, difficulty with breathing) as well as aggravate pre-existing asthma and

inflammatory or fibrotic pulmonary disease.

## 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:** Call a physician or Poison Control Center immediately. Do not ingest emetic.

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

attention.

**Skin contact:** Rinse with water.

Remove contaminated clothing and wash before reuse. Consult a physician if skin redness or irritation persists.

Protection of first-aiders: None.

**Notes to physician:** Probable damage to the mucosa from oral exposure may contraindicate the use of

gastric lavage.

# 5. FIRE-FIGHTING MEASURES

Flash point (°F):

Flash point (°C):

Autoignition temperature:

Flammable limits in air - lower (%):

Not applicable

Not applicable

NFPA rating: Health: 2 Flammability: 0 Reactivity: 0

HMIS/ NFPA rating and classification:

Fire fighting information:

Suitable extinguishing media: Use extinguishing agent which 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:** Carbon dioxide and carbon monoxide.

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.

Responders should wear gloves, goggles and suitable body protection. Where there is a risk of product contact with shoes, chemical resistant shoe coverings are

recommended.

**Environmental precautions:** Do not wash down sewers or waterways

**Methods for cleaning up:** Clean-up methods - large spillage

Contain spill by placing suitable absorbent material around the edges of the spill and

work inward. Carefully scoop up into waste container for disposal.

For each estimated gallon of spill disperse about 228g of sodium bisulfite powder (CAS 7631-90-5) or 25g of glycine (56-40-6) on spill. Thoroughly blend into CIDEX Solution. Allow 5 minutes for neutralization. Dispose of in accordance with applicable

Federal, State and Local Regulations. Clean contaminated surfaces thoroughly.

#### 7. HANDLING AND STORAGE

#### Handling:

Technical measures/precautions:

Safe handling advice: Use in well-ventilated areas and use with appropriate

exhaust ventilation, for example a minimum of 10 air exchanges per hour or as defined by State or Local

Regulations.

Avoid breathing vapors or mist.

Avoid contact with skin, eyes and clothing.

Remove contaminated clothing and launder before use.

Storage:

**Technical measures/storage conditions:** This product should be stored between 59°F (15°C) and

86°F (30°C).

**Incompatible products:** Avoid contact with strong acids and bases. Keep from

contact with oxidizing material.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering controls:** Ensure adequate ventilation.

**Eye protection:** Eye protection required.

**Hand protection:** Chemical resistant gloves required.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection:** In case of insufficient ventilation wear suitable respiratory equipment.

Other/general protection: None required.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Unactivated, colorless; Activated, green

Physical state: Liquid

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**pH:** 3.2-4.3 (unactivated) 7.5-8.1 (activated)

**Odor:** Characteristic aldehyde odor.

Boiling temperature (°F): 212
Boiling temperature (°C): 100
Freezing point/range (°C): 0
Freezing point/range (°F): 32
Specific gravity: 1.029g/cc
Vapor density: 1.1
Evaporation rate: 1.0

Water solubility: Completely soluble

# 10. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.

Hazardous polymerization: Hazardous polymerization does not occur.

Hazardous decomposition products: None.

Materials to avoid: Strong acids, bases and oxidizing agents.

**Conditions to avoid:** Extremes of temperature, direct sunlight and prolonged

heating at temperature above 40°C.

### 11. TOXICOLOGICAL INFORMATION

**Acute toxicity** 

LD50 Oral Rat (mg/kg): 4250mg/kg LD50 Dermal Rabbit (mg/kg): >2000mg/kg

**Local effects** 

Oral: Unknown on product.

**Eye irritation** Severe irritant and corrosive to the eye when tested in animals.

**Skin irritation:** Skin contact may aggravate pre-existing dermatitis.

Inhalation: Inhalation of vapor may cause asthma-like symptoms as well as aggravate pre-

existing asthma and inflammatory or fibrotic pulmonary disease

**Chronic toxicity** 

Oral: Unknown on product.
Inhalation: Unknown on product.

Dermal: Unknown on product.

Subchronic toxicity

**Oral:** Subchronic drinking water studies in rats, mice and dogs using glutaraldehyde

concentrations of up to 1000ppm showed no evidence for any target organ toxicity.

**Dermal:** Unknown on product.

**Specific effects** 

Corrosive effects: Unknown on product.

**Sensitization:** When administered to the skin of guinea pigs using the maximization method the

compound was found to be a mild sensitizer.

Target organ effects: None.

Mutagenic effects: In vitro studies have given results varying from no genotoxicity to equivocal or weakly

positive activity; however, all in vivo studies have been uniformly negative.

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**Reproductive effects:** Not a reproductive effector in animals.

This material is not reported to cause reproductive effects in humans.

**Developmental effects:** At maternally non-toxic doses, glutaraldehyde does not produce fetotoxic, embryo

toxic or teratogenic effects.

Carcinogenic effects: No carcinogenic effects were observed in rats or mice.

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** 

**Ecotoxicity effects:** This product has no known eco-toxicological effects. **Aquatic toxicity effects:** This product has no known aquatic toxicological effects.

Mobility:Unknown on product.Persistence / degradability:Unknown on product.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. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local

hazardous waste regulatory authority.

**Contaminated packaging:**Do not re-use empty containers.

Methods for cleaning up:

Clean-up methods - large spillage

Contain spill by placing suitable absorbent material around the edges of the spill and work inward. Carefully scoop up

into waste container for disposal.

For each estimated gallon of spill disperse about 228g of sodium bisulfite powder (CAS 7631-90-5) or 25g glycine (CAS 56-40-6) on spill. Thoroughly blend into CIDEX Solution. Allow 5 minutes for deactivation. Dispose in accordance with all Federal, State and Local Regulations.

Clean contaminated surfaces thoroughly.

#### 14. TRANSPORT INFORMATION

DOT:

DOT UN-No:

DOT shipping name:

Hazard class:

Subsidiary risk (hazard class):

Packing group:

Not applicable

IMO/IMDG:

Hazard class:Not applicableIMDG page:Not applicableIMDG-labels:Not applicablePacking group:Not applicableMFAG table No.:Not applicableProper shipping name:Not applicable

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UN/ld No.: Not applicable

ADR/RID:

Hazard class/packing group:

Not applicable
Proper shipping name:
Not applicable
Not applicable
Not applicable

IATA/ICAO:

Hazard class:Not applicablePacking group:Not applicableProper shipping name:Not applicableID/UN No.:Not applicableIATA - label:Not applicableERG #Not applicable

TDG (Canada):

Status: Not applicable Packing group: Not applicable

#### 15. REGULATORY INFORMATION

Components	CAS Number	Weight %	ACGIH TLV (TWA -	ACGIH TLV (STEL)	ACGIH TLV (Ceiling
			8hr)		Limits)
Glutaraldehyde	111-30-8	<5			0.2 mg/m <sup>3</sup>

Components	CAS Number	Weight %	OSHA (TWA - 8hr)	OSHA (STEL)	OSHA (Ceiling
					Limits)
Glutaraldehyde	111-30-8	<5			0.8 mg/m <sup>3</sup>

SARA (311, 312) hazard class:

Immediate health:NoneDelayed health:NoneFire:NoneSudden Release ofNone

**Pressure Hazard:** 

Reactivity: None

Components	CAS Number	Weight %	New Jersey	Pennsylvania	Massachusett	Connecticut	Michigan Critical
			RTK List:	RTK List:	s RTK List:	Hazardous	List:
						Material List:	
Glutaraldehyde	111-30-8	<5	Listed.	Listed.	Listed.		

TSCA inventory list: Listed under TSCA: Yes

WHMIS:

WHMIS trade secret: None WHMIS hazard class: None

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.

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# 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.

#### Disclaimer:

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**End of Safety Data Sheet** 

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