

Material Safety Data Sheet

MSDS 013

Rev. **D**
 Product: **Activator for CIDEX® Activated Dialdehyde 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: 1-877-208-6653 - 24 hrs
Product name: Activator for CIDEX Activated Dialdehyde 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&JU - OEL Data (STEL):	J&J - OEL Data (Ceiling Limit Value):	J&J - PBOEL
Sodium Bicarbonate	144-55-8	48-56	Not Determined	Not Determined	Not Determined	Not Determined
Formaldehyde Hydrosulfite	149-44-0	37-45	Not Determined	Not Determined	Not Determined	Not Determined
Trisodium Phosphate	7601-54-9	6.5-7.5	Not Determined	Not Determined	Not Determined	Not Determined

3. HAZARDS IDENTIFICATION

Emergency overview: Harmful if swallowed or inhaled. Causes irritation to skin, eyes, and respiratory tract.

Properties affecting health: None

Principle routes of exposure:

- Oral:** Not anticipated to be a significant route of occupational exposure. Can irritate the tissues of mouth, esophagus, and other tissues of the digestive system.
- Eye contact:** May cause eye irritation and redness.
- Skin contact:** May cause skin irritation.
- Ingestion:** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- Inhalation:** Breathing dust can cause irritation of nose, throat, or respiratory system. Symptoms include coughing and sneezing.

Hazard information:

- Target organ effects:** None.
- Reproductive effects:** This material is not known to cause reproductive effects in humans
- Mutagenic effects:** This product is not known to produce mutagenic effects in humans
- Sensitization:** Non-sensitizing.

Carcinogenicity rating:

Components	CAS Number	J&J:	NTP:	IARC:	California Proposition 65 List:
Sodium Bicarbonate	144-55-8	Not Determined	Not Determined	Not Determined	Not Determined
Formaldehyde Hydrosulfite	149-44-0	Not Determined	Not Determined	Not Determined	Not Determined
Trisodium Phosphate	7601-54-9	Not Determined	Not Determined	Not Determined	Not Determined

Signs and symptoms: Prolonged skin contact may cause skin irritation and/or dermatitis

Medical conditions aggravated by exposure: None known.

4. FIRST AID MEASURES

Eye contact: Flush eye with water for 15 minutes.
If eye irritation persists, seek medical attention.

Ingestion: Do not induce vomiting. Call a physician or Poison Control Center immediately.

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

Skin contact: In case of contact with skin, flush skin with plenty of water for at least 15 min.

Protection of first-aiders: None

Notes to physician: None

5. FIRE-FIGHTING MEASURES

Flash point (°F): Not applicable
Flash point (°C): Not applicable.
Autoignition temperature: Not applicable.
Flammable limits in air - lower (%): Not applicable.
NFPA rating: Health 2, flammability 0, reactivity 1

Fire fighting information:

Suitable extinguishing media: Water, Carbon Dioxide, or dry chemical powder.

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: Not applicable.

Explosion limits:

lower: None.
upper: None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear eye and skin protection while handling material for cleanup.

Environmental precautions: No special environmental precautions required.

Methods for cleaning up: Clean-up methods - small spillage
Scoop into suitable container for disposal.
Clean-up methods - large spillage
Avoid dust formation.
Shovel or sweep up.
Wear protective gloves and clothing.
Clean contaminated surface thoroughly.
Never return spills in original containers for re-use.

7. HANDLING AND STORAGE

Handling:

Technical measures/precautions:

Safe handling advice:

No special technical protective measures required.
Do not breathe fumes/dust. Use only in well ventilated areas.

Storage:

Technical measures/storage conditions:

Incompatible products:

Keep away from direct sunlight.
The product should be stored between 59°F(15°C) and 86°F(30 °C).
No special restrictions on storage with other products.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Ensure adequate ventilation.
Eye protection: Avoid contact with eyes. Wear proper 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: Powder
Physical state: Solid powder
Color: Pale Green
pH: 8.2 – 9.2
Odor: Odorless
Melting point/range (°F): Not determined on this product.
Melting point/range (°C): Not determined on this product.
Specific gravity: 2.16

10. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.
Hazard polymerization: Hazardous polymerization does not occur.
Hazardous decomposition products: Carbon dioxide and carbon monoxide.

Company: ADVANCED STERILIZATION PRODUCTS
Product name: Activator for CIDEX Activated Dialdehyde Solution

Product code: ASPCIDEX_ACT
CO 24503-1

Materials to avoid: Strong acids and strong bases cause neutralization.
Conditions to avoid: Extremes of temperature, direct sunlight and moisture.

11. TOXICOLOGICAL INFORMATION

Acute toxicity Unknown on product.

Local effects

Oral: May cause irritation of digestive tract.
Eye irritation: May cause eye irritation.
Skin irritation: May cause skin irritation
Inhalation: May cause irritation of the respiratory tract.

Chronic toxicity

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

Dermal: Unknown on product.

Subchronic toxicity

Oral: Unknown on product.
Dermal: Unknown on product.

Specific effects

Corrosive effects: Not corrosive.
Sensitization: Not a sensitizer.
Target organ effects: None
Mutagenic effects: No evidence of mutagenic potential found.

Reproductive effects: This material is not reported to cause reproductive effects in humans
Developmental effects: This material is not reported to cause teratogenic or embryotic effects in humans

Carcinogenic effects: No data available on product itself.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: This material may be harmful to contaminated plant and animal life (esp. when released in large quantities)
Aquatic toxicity effects: This material may be harmful to aquatic plant and animal life.

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, 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:	None
Methods for cleaning up:	Clean-up methods - small spillage Scoop into suitable container for disposal. Clean-up methods - large spillage Avoid dust formation. Shovel or sweep up. Wear protective gloves and clothing. Clean contaminated surface thoroughly. Never return spills in original containers for re-use.

14. TRANSPORT INFORMATION

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

IMO/IMDG:	
Hazard class:	Not applicable
IMDG page:	Not applicable
IMDG-labels:	Not applicable
Packing group:	Not applicable
MFAG table No.:	Not applicable
Proper shipping name:	Not applicable
UN/Id No.:	Not applicable

ADR/RID:	
Hazard class/packing group:	Not applicable
Item:	Not applicable
ADR/RID-labels:	Not applicable
UN/Id No.:	Not applicable
Proper shipping name:	Not applicable
TREM-card:	Not applicable

IATA/ICAO:	
Hazard class:	Not applicable
Packing group:	Not applicable
Proper shipping name:	Not regulated
ID/UN No.:	Not applicable
IATA - label:	Not applicable
ERG #	Not applicable

TDG (Canada):	
Status:	Not applicable
Packing group:	Not applicable

15. REGULATORY INFORMATION

SARA (311, 312) hazard class:	
Immediate health:	None
Delayed health:	None
Fire:	None
Sudden Release of Pressure Hazard:	None

Reactivity: None

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.

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