SECTION 1. IDENTIFICATION

Substance name: CIDEX Powder Activator
ASP

Manufacturer or supplier’s details
Company name of supplier: Advanced Sterilization Products
Address: 33 Technology Drive
Irvine, CA 92618
US
Telephone: (800) 755-5900
Emergency telephone number: (703)527-3887

Recommended use of the chemical and restrictions on use
Recommended use: High level disinfection

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Skin corrosion: Category 1B
Serious eye damage: Category 1
Germ cell mutagenicity: Category 2

GHS Label element
Medicinal devices are not subject to GHS labeling.

Hazard pictograms:

Signal word: Danger
Hazard statements: H314 Causes severe skin burns and eye damage.
H341 Suspected of causing genetic defects.

Precautionary statements: Prevention:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read
and understood.
P260 Do not breathe dust or mist.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/
face protection.
P281 Use personal protective equipment as required.

**Response:**
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 + P310 IF IN EYES: 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.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.

**Storage:**
P405 Store locked up.

**Disposal:**
P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**
Warning! May form combustible dust concentrations in air.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance / Mixture:** Mixture

**Chemical nature:** Solid

**Hazardous components**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium formaldehyde sulfoxylate</td>
<td>149-44-0</td>
<td>&gt;= 30 - &lt; 50</td>
</tr>
<tr>
<td>Trisodium orthophosphate</td>
<td>7601-54-9</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
</tbody>
</table>

### SECTION 4. FIRST AID MEASURES

**If inhaled:**
If breathed in, move person into fresh air. Consult a physician. Victim to lie down in the recovery position, cover and keep him warm.

**In case of skin contact:**
Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water. Call a physician immediately. Keep warm and in a quiet place. Wash contaminated clothing before reuse.

**In case of eye contact:**
Rinse immediately with plenty of water, also under the eyelids,
If swallowed:
- If swallowed, rinse mouth with water (only if the person is conscious).
- Do NOT induce vomiting.
- Drink plenty of water.
- Call a physician immediately.

Most important symptoms and effects, both acute and delayed:
- Causes burns.
- Causes eye burns.

Notes to physician:
- Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media:
- Carbon dioxide (CO2)
- Foam
- Water spray jet

Unsuitable extinguishing media:
- No information available.

Specific hazards during firefighting:
- No information available.

Hazardous combustion products:
- Carbon oxides

Specific extinguishing methods:
- Remove undamaged containers from fire area if it is safe to do so.

Further information:
- In the event of fire, cool tanks with water spray.

Special protective equipment for firefighters:
- In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
- In the event of an accidental release the emergency response team must respond based on a risk assessment and use personal protective equipment as appropriate.
- Avoid dust formation.
- Avoid breathing dust.
- Evacuate personnel to safe areas.
- Ensure adequate ventilation.

Environmental precautions:
- Should not be released into the environment.
- Prevent further leakage or spillage if safe to do so.
Methods and materials for containment and cleaning up:
- Large spills: Sweep up (intact) or vacuum with HEPA filter (broken or crushed) or via wet cleaning into suitable containers for disposal. Pick up and arrange without creating dust. Keep in properly labelled containers.
- Small spills: Moisten a towel, cover the spill, pick up the spill or use HEPA vacuum.
- Large spills + Small spills: Keep in suitable, closed containers for disposal. Treat recovered material as described in the section "Disposal considerations."

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion:
- Avoid dust formation.

Advice on safe handling:
- Ensure all equipment is electrically grounded before beginning transfer operations.
- To avoid thermal decomposition, do not overheat.
- Use only with adequate ventilation.
- Avoid inhalation, ingestion and contact with skin and eyes.
- Keep away from heat and sources of ignition.
- For personal protection see section 8.

Conditions for safe storage:
- To maintain product quality, do not store in heat or direct sunlight.
- Store in original container.
- Keep containers tightly closed in a dry, cool and well-ventilated place.
- Keep away from heat and sources of ignition.
- Store at room temperature.

Recommended storage temperature: 15 - 30 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters:
Contains no substances with occupational exposure limit values.

Engineering measures:
- All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.

Personal protective equipment:
- Respiratory protection: Engineering controls should always be the primary method of controlling exposures. If respiratory protective equipment is needed for certain activities, the type as well as the corresponding protection factor will depend upon the risk assessment and air concentrations, hazards, physical and warning properties of substances present.
Hand protection

Remarks : Impervious gloves Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear suitable protective clothing.

Protective measures : The type of protective equipment must be selected based on the Environmental Health and Safety risk assessment. Consult a Environmental Health and Safety expert if necessary.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>powder</td>
</tr>
<tr>
<td>Colour</td>
<td>light yellow</td>
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<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>pH</td>
<td>8.2 - 9.2</td>
</tr>
<tr>
<td>Density</td>
<td>2.16 g/cm³</td>
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<tr>
<td>Water solubility</td>
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SECTION 10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Reactivity</td>
<td>None reasonably foreseeable.</td>
</tr>
<tr>
<td>Chemical stability</td>
<td>Stable under normal conditions.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>No dangerous reaction known under conditions of normal use.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Exposure to moisture</td>
</tr>
<tr>
<td></td>
<td>Heat, flames and sparks.</td>
</tr>
<tr>
<td></td>
<td>To avoid thermal decomposition, do not overheat.</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>Strong acids and strong bases</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
No data available

Skin corrosion/irritation

Components:
Trisodium orthophosphate
Result: Corrosive to skin

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity

Components:
sodium formaldehyde sulfoxylate
Germ cell mutagenicity - Assessment: Suspected of causing genetic defects, based on positive evidence obtained from in vitro and in vivo studies and expert judgment.

Carcinogenicity
IARC
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity
No data available

STOT - single exposure
No data available

STOT - repeated exposure
No data available

Hazardous decomposition products:
- Carbon dioxide (CO2)
- Phosphorus compounds
- Potassium oxides
- Nitrogen oxides (NOx)
- Sodium oxides

Date of last issue: 2015/03/27
Date of first issue: 2015/03/27
SAFETY DATA SHEET

Repeated dose toxicity
No data available

Aspiration toxicity
No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
No data available

Persistence and degradability
No data available

Bioaccumulative potential
No data available

Mobility in soil
No data available

Other adverse effects

Product:

Ozone-Depletion Potential: Regulation: 40 CFR Protection of Environment; Part 82
Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues: In accordance with National, Federal, State and Local regulations.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

ADR
Not dangerous goods

RID
SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act
This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act
This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.
This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

Massachusetts Right To Know
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know
CARBONIC ACID SODIUM (1:1) 144-55-8 50 - 70 %
sodium formaldehyde sulfoxylate 149-44-0 30 - 50 %
Trisodium orthophosphate 7601-54-9 5 - 10 %

New Jersey Right To Know
CARBONIC ACID SODIUM (1:1) 144-55-8 50 - 70 %
California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Other regulations

: Restricted to professional users.

This product is not subject to TSCA and TSCA 12(b) Export notification because Food, Drugs and cosmetic products are exempt.

The components of this product are reported in the following inventories:

REACH

: Not in compliance with the inventory

: CARBONIC ACID SODIUM (1:1)

: Trisodium orthophosphate

: sodium formaldehyde sulfoxylate

: D&C green dye no. 8

CH INV

: Not in compliance with the inventory

: CARBONIC ACID SODIUM (1:1)

: Trisodium orthophosphate

: D&C green dye no. 8

TSCA

: Not On TSCA Inventory

: Trisodium orthophosphate

: D&C green dye no. 8

DSL

: This product contains the following components that are not on the Canadian DSL nor NDSL.

: Trisodium orthophosphate

: sodium formaldehyde sulfoxylate

: D&C green dye no. 8

AICS

: Not in compliance with the inventory

: Trisodium orthophosphate

: sodium formaldehyde sulfoxylate
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<th>Inventories</th>
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<tbody>
<tr>
<td>AICS (Australia)</td>
<td>DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)</td>
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<table>
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<td>Trisodium orthophosphate</td>
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<tr>
<td></td>
<td>sodium formaldehyde sulfoxylate</td>
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<td></td>
<td>D&amp;C green dye no. 8</td>
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<table>
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<tr>
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<td>Trisodium orthophosphate</td>
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<tbody>
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<td>sodium formaldehyde sulfoxylate</td>
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<tr>
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</tr>
</tbody>
</table>
SECTION 16. OTHER INFORMATION

Further information

NFPA:

Health

Flammability

Instability

Special hazard.

HMIS III:

HEALTH

FLAMMABILITY

PHYSICAL HAZARD

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

Revision Date : 2015/04/21

Date and Number Formats

This document uses the following notation for printing dates and numbers:

Date:

Dec 31th, 2012 as 2012/12/31

Numbers:

123456,78 as 123,456.78

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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