

Versio 3.4	on	Revision Date: 2018/06/09		DS Number: 00000011340	Date of last issue: 2018/01/27 Date of first issue: 2015/03/27	
SECT	SECTION 1. IDENTIFICATION					
5	Substa	nce name	:	CIDEX OPA Con	centrate	
N	Manufa	acturer or supplier's	deta	ails		
C	Compa	ny name of supplier	:	Advanced Steriliz	ation Products	
A	Addres	S	:	33 Technology D Irvine, CA 92618 US		
E		one address Responsi- uing person		(800) 755-5900 SDSJanssen@its	s.jnj.com	
	Emerg numbe	ency telephone r	:	CHEMTREC US: CHEMTREC Inte	1-800-424-9300 rnational: +1 703-527-3887	
F	Recom	mended use of the c	her	nical and restriction	ons on use	
F	Recom	mended use	:	High level disinfe	ction	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Flammable liquids	: Category 3
Skin corrosion	: Category 1B
Eye irritation	: Category 2A
Skin sensitisation	: Category 1
Acute aquatic toxicity	: Category 1
Chronic aquatic toxicity	: Category 1

GHS label elements

Medicinal devices are not subject to GHS labeling.

:

:

Hazard pictograms



Signal word

Danger



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Haza	rd statements	H314 Causes s H317 May caus	le liquid and vapour. evere skin burns and eye damage. e an allergic skin reaction. to aquatic life with long lasting effects.
Preca	autionary statements	No smoking. P233 Keep con P240 Ground/b P241 Use explo ment. P242 Use only P243 Take pred P261 Avoid bre P264 Wash skin P272 Contamin the workplace. P273 Avoid rele P280 Wear pro face protection. Response: P301 + P330 + induce vomiting P303 + P361 + all contaminate P304 + P340 + and keep comfo CENTER/docto P305 + P351 + for several minu to do. Continue P333 + P313 If attention. P363 Wash cor P370 + P378 In hol-resistant foa P391 Collect sp Storage: P403 + P235 S P405 Store lock Disposal:	 P353 IF ON SKIN (or hair): Take off immediately d clothing. Rinse skin with water/shower. P310 IF INHALED: Remove person to fresh air ortable for breathing. Immediately call a POISON r. P338 IF IN EYES: Rinse cautiously with water utes. Remove contact lenses, if present and easy rinsing. skin irritation or rash occurs: Get medical advice/ eye irritation persists: Get medical advice/ attentaminated clothing before reuse. case of fire: Use dry sand, dry chemical or alcoam to extinguish. billage.
Othe	r hazards	posal plant.	

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



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Subst	ance / Mixture	: Mixture		
Chem	nical nature	: Liquid		
Haza	rdous components			
Chem	nical name		CAS-No.	Concentration (%)
ethan	ol		64-17-5	<= 20
phtha	laldehyde		643-79-8	<= 5.75

SECTION 4. FIRST AID MEASURES

If inhaled	 If breathed in, move person into fresh air. Artificial respiration and/or oxygen may be necessary. Consult a physician. Victim to lie down in the recovery position, cover and keep hin warm. 	n
In case of skin contact	 Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water. Call a physician immediately. Wash contaminated clothing before re-use. Keep warm and in a quiet place. 	
In case of eye contact	 Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes. Remove contact lenses. Consult a physician. 	,
If swallowed	 If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a physician immediately. Drink plenty of water. 	-
Most important symptoms and effects, both acute and delayed	: Sensitisation Causes burns. Nausea Vomiting	
Notes to physician	: Treat symptomatically.	

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Alcohol-resistant foam Carbon dioxide (CO2) Dry powder Water spray jet
Unsuitable extinguishing media	:	High volume water jet



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	Specifi fighting	c hazards during fire- I	:	Heating can relea	se hazardous gases.
	Hazarc ucts	lous combustion prod-	:	No hazardous co	nbustion products are known
	Specifi ods	c extinguishing meth-	:	Remove undama so.	ged containers from fire area if it is safe to do
	Furthe	r information	:		e, cool tanks with water spray. guishing water from contaminating surface nd water system.
	Specia for firef	l protective equipment ighters	:	In the event of fire	e, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Evacuate personnel to safe areas. In the event of an accidental release the emergency response team must respond based on a risk assessment and use per- sonal protective equipment as appropriate.
Environmental precautions	:	Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not flush into surface water or sanitary sewer system.
Methods and materials for containment and cleaning up	:	Large spills: Dam up. Soak up with inert absorbent material. Keep in properly labelled containers. Small spills: Gently cover the spill with an absorbent towel or pad. Large spills + Small spills: Keep in suitable, closed containers for disposal. Treat recovered material as described in the sec- tion "Disposal considerations".

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	: No data available
Advice on safe handling	 Do not remove screw cap until immediately ready for use. To avoid thermal decomposition, do not overheat. Keep away from heat and sources of ignition. Avoid inhalation, ingestion and contact with skin and eyes. Use only with adequate ventilation. Use personal protective equipment as required.
Conditions for safe storage	 To maintain product quality, do not store in heat or direct sun- light. Store in original container. Keep containers tightly closed in a dry, cool and well- ventilated place.



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		Keep away from	heat and sources of ignition.
Recommended storage tem- perature		: 15 - 30 °C	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
ethanol	64-17-5	TWA	1,000 ppm	ACGIH
		STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m3	OSHA P0
		PEL	1,000 ppm 1,900 mg/m3	CAL PEL

Components with workplace control parameters

Hazardous components without workplace control parameters

Components	CAS-No.
phthalaldehyde	643-79-8
Engineering measures	: All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.
Personal protective equipmen	t
Respiratory protection	 Engineering controls should always be the primary method of controlling exposures. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. 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. No personal respiratory protective equipment normally required.
Hand protection	
Remarks	: Take note of the information given by the producer concern- ing permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Impervious gloves Neoprene gloves
Eye protection	: Face-shield



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Skin and body protection		: chemical resistant apron, coat or coverall Boots			
Protective measures		the Environmen	ective equipment must be selected based on tal Health and Safety risk assessment. Con- ental Health and Safety expert if necessary.		
Hygiene measures		practice.	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	clear
Colour	:	clear, dark blue
Odour	:	alcohol-like
Odour Threshold	:	No data available
рН	:	7.5
Melting point/range	:	< 0 °C
Boiling point/boiling range	:	87.8 °C
Flash point	:	32.2 °C
Evaporation rate	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0.9896 g/cm3 (20 °C)
Solubility(ies)		
Water solubility	:	soluble
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	log Pow: 0.677
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		



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V	iscosity, dynamic	: No data availab	le	
Viscosity, kinematic		: No data available		
Explosive properties		: No data available		
Oxic	lizing properties	: No data availab	le	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: None reasonably foreseeable.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reac- tions	: No dangerous reaction known under conditions of normal use. Hazardous polymerisation does not occur.
Conditions to avoid	: To avoid thermal decomposition, do not overheat.
Incompatible materials	: Acids Alkali metals Reducing agents Oxidizing agents
Hazardous decomposition products	: None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity	
Product: Acute oral toxicity	: Acute toxicity estimate: 3,096 mg/kg Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Components: ethanol Acute oral toxicity	: LD50 (Rat): 7,060 mg/kg Symptoms: nausea Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	 LC50 (Rat): 2,000 mg/l Exposure time: 4 h Assessment: The substance or mixture has no acute inhalation toxicity LC50 (Mouse): > 20 mg/l Exposure time: 4 h
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Acute	e dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg
	alaldehyde e oral toxicity	: LD50 Oral (R	at): 178 mg/kg
Skin	corrosion/irritation		
ethar Methe	ponents: 10I od: OECD Test Guidel It: No skin irritation	ine 404	
	alaldehyde lt: Corrosive after 3 mi	nutes to 1 hour of ex	posure
Serio	ous eye damage/eye i	rritation	
<u>Prod</u> Resu	uct: It: irritating		
ethar	ponents: 101 It: Eye irritation		
Resp	iratory or skin sensit	isation	
<u>Prod</u> Resu	uct: It: May cause sensitisa	tion by skin contact.	
ethar	ponents: 1 0I It: Does not cause skir	sensitisation.	
	alaldehyde It: May cause sensitisa	tion by skin contact.	
Germ	n cell mutagenicity		
<u>Prod</u> Geno	<u>uct:</u> toxicity in vitro	: Test Type: Ar Result: negat Remarks: In v	
ethar	ponents: nol toxicity in vitro	: Test Type: Ar Species: Muta mutation assa Result: negat	agenicity (Salmonella typhimurium - reverse ay)



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Carcin IARC	ogenicity	Group 1: Carcinoge	nic to humans	
		ethanol		64-17-5
OSHA			is product present at levels greater th OSHA's list of regulated carcinogens	
NTP			is product present at levels greater th ntified as a known or anticipated carc	
Repro	ductive toxicity			
phthal	onents: aldehyde s on foetal pment	: Species: Rat, fem Application Route Dose: <10 milligr Result: No terato	e: Oral am per kilogram	

STOT - single exposure

Components:

ethanol

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Components:

ethanol

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

phthalaldehyde Species: Rat NOAEL: 5 mg/kg Application Route: Oral Exposure time: 90 days

Aspiration toxicity

<u>Components:</u> ethanol No aspiration toxicity classification



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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
<u>Product:</u> Toxicity to algae	:	Remarks: The active ingredient o-phthalaldehyde is
		considered toxic to algae. However upon dilution the activity is reduced.
<u>Components:</u> ethanol		
Toxicity to fish	:	(Leuciscus idus (Golden orfe)): 8,140 mg/l Exposure time: 48 h Test Type: LC50
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 9,268 - 14,221 mg/l Exposure time: 48 h
Toxicity to algae	:	EC50 (Chlorella pyrenoidosa (aglae)): > 100 mg/l
phthalaldehyde Toxicity to fish	:	(Oncorhynchus mykiss (rainbow trout)): 0.072 mg/l Exposure time: 96 h
		Test Type: LC50
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.087 mg/l Exposure time: 48 h
Persistence and degradabili	ty	
Components:		
ethanol Biodegradability	:	Biodegradation: > 70 % Method: OECD Test Guideline 301D
Bioaccumulative potential		
Components:		
ethanol Bioaccumulation	:	Remarks: Accumulation in aquatic organisms is unlikely.
Partition coefficient: n- octanol/water	:	log Pow: -0.35 (20 °C) Method: OECD Test Guideline 117
phthalaldehyde Partition coefficient: n- octanol/water	:	Remarks: No data available
Mobility in soil		
No data available		



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Other adverse effects			
Product:			
Ozon	e-Depletion Potential	Protection of Str Substances Remarks: This p manufactured w	CFR Protection of Environment; Part 82 atospheric Ozone - CAA Section 602 Class I product neither contains, nor was ith a Class I or Class II ODS as defined by the act Section 602 (40 CFR 82, Subpt. A, App.A +
	ional ecological nation		al hazard cannot be excluded in the event of andling or disposal.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods Waste from residues	:	In accordance with National, Federal, State and Local regula- tions.
Contaminated packaging		Empty containers should be taken to an approved waste han- dling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (phthalaldehyde)
Class	:	9
Packing group	:	III
Labels	:	9
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (phthalaldehyde)
Class	:	9
Packing group	:	III
Labels	:	9
Packing instruction (cargo aircraft)	:	964
Packing instruction (LQ)	:	Y964
Packing instruction (EQ)	1	E1
Packing instruction (passenger aircraft)	:	964



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Packi Rema	ng instruction (LQ) arks	 Y964 Special Provision A197: Environmentally hazardous substances, classified under UN 3077 or UN 3082, when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of the IATA DGR provided the packagings meet the general provisions of IATA DGR 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8., This substance can be shipped under 'de minimi's quantities' provisions if the net quantity per inner package <= 1mL for liquids or <= 1g for solids and the net quantity per outer package does not exceed 100mL for liquids or 100g for solids and provided packaging provisions of IATA DGR §2.6.10 are met.
UN ni	i-Code umber er shipping name	: UN 3082 : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Label EmS	ng group s Code e pollutant	 (phthalaldehyde) 9 III 9 F-A, S-F yes 2.10.2.7: Environmentally Hazardous Substances/Marine Pollutants, classified under UN 3077 or UN 3082, packaged in single or combination packagings containing a net quantity per single of inner packaging of 5L or less for liquids or having a net mass per single of inner packaging of 5kg or less for solids are not subject to the IMDG provided the packagings meet the general requirements of 4.1.1.1, 4.1.1.2, and 4.1.1.4 to 4.1.1.8., This substance can be shipped under 'de minimi's quantities' provisions if the net quantity per inner package <= 1mL for liquids or <= 1g for solids and the net quantity per outer package does not exceed 100mL for liquids or 100g for solids and provided packaging provisions of ADR/RID/ADN/IMDG §3.5.1.4 are met.
	sport in bulk accordi pplicable for product a	ng to Annex II of MARPOL 73/78 and the IBC Code s supplied.
Natio	nal Regulations	
Prope Class Packi Label ERG	D/NA number er shipping name ng group s Code e pollutant	 UN 3082 Environmentally hazardous substance, liquid, n.o.s. (phthalaldehyde) 9 III 9 171 no 49 CFR 171.4 - Marine Pollutant Exception: Except when transporting aboard a vessel, the requirements of this subchapter do not apply to non-bulk packagings transported



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		be shipped under quantity per inner solids and the ner 100mL for liquid	es, rail cars, and aircraft., This substance can er 'de minimi's quantities' provisions if the net er package <= 1mL for liquids or <= 1g for et quantity per outer package does not exceed s or 100g for solids and provided packaging CFR 173.4b are met.

SECTION 15. REGULATORY INFORMATION

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 112 (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).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

ethanol 64-17-5 20 %

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.

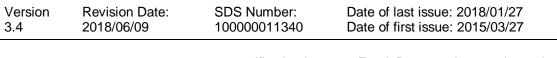
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts	s Right To Know ethanol	64-17-	-5	20 - 30 %
Pennsylvania Right To Know ethanol phthalaldehyde		64-17- 643-79	-	20 - 30 % 5 - 10 %
New Jersey Rig	ght To Know ethanol phthalaldehyde	64-17- 643-79	-	20 - 30 % 5 - 10 %
California Prop 65 ethanol		WARNING! This product contains a chemical known to the State of California to cause cancer. ethanol WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.		
	ethanol	ethano	ol	
Other regulations		Restricted to professional users.		

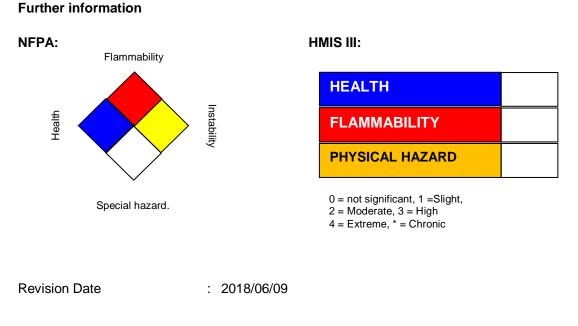
This product is not subject to TSCA and TSCA 12(b) Export





notification because Food, Drugs and cosmetic products are exempt.

SECTION 16. OTHER INFORMATION



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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