

## MATERIAL SAFETY DATA SHEET

MSDS NO. 003 193  
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## SECTION 1 - IDENTIFICATION

MANUFACTURER'S NAME: JOHNSON & JOHNSON MEDICAL, INC.  
ADDRESS: P.O. Box 130  
Arlington, TX 76004-0130

EMERGENCY TELEPHONE NUMBER: 1-800-433-5170

TELEPHONE NUMBER FOR INFORMATION: 1-817-467-0211

ISSUED: 3/1/90

PREPARED BY: Regulatory Affairs

IDENTITY: 2% Aqueous Glutaraldehyde Solution

PRODUCT CODE: 2245, 2250, 2253

TRADE NAME: CIDEX<sup>®</sup> Activated Dialdehyde Solution/Activator Vial

SYNONYMS: None

CHEMICAL FAMILY: Aldehydes

MOLECULAR FORMULA: OHCC<sub>3</sub>H<sub>6</sub>CHO (Active)

RTECS #: HA 2450000 (active)

MOLECULAR WEIGHT: 100

HAZARD RATING - HEALTH: 3 (Serious Hazard)

FLAMMABILITY: 0

REACTIVITY: 0

SPECIFIC: None

## SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENTS (SPECIFIC CHEMICAL IDENTITY)	CAS #	%	OSHA PEL	ACGIH TLV	OSHA 1910.1200
Glutaraldehyde (active)	111-30-8	2	0.2ppm,C	0.2ppm,C	na
inert buffer salts	na		None	None	nonhazardous
water	7732-18-5	98	None	None	nonhazardous

## SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

APPEARANCE AND ODOR: 2 components: colorless fluid and powdered salts; turns green when activated. Sharp odor.

BOILING POINT: 212°F

SPECIFIC GRAVITY(H<sub>2</sub>O=1): 1.002 g/cc

VAPOR PRESSURE(mm Hg): same as water

MELTING POINT: na

VAPOR DENSITY(AIR=1): same as water

EVAPORATION RATE(H<sub>2</sub>O=1): 0.98

SOLUBILITY IN WATER: complete

pH: 8.7

FREEZING POINT: same as water

ODOR THRESHOLD: .04 ppm, detectable. (ACGIH)

## SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT(METHOD USED): None

FLAMMABLE LIMITS - LEL: nd

UEL: nd

EXTINGUISHING MEDIA: If water is evaporated, material can burn. Use carbon dioxide or dry chemical for small fires. Use foam (alcohol, polymer or ordinary) or water fog for large fires.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus and protective clothing should be available for fireman.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

TOXIC GASES PRODUCED: None

## SECTION 5 - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: None

INCOMPATIBILITY(MATERIALS TO AVOID): None

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur

## SECTION 6 - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY - INHALATION: yes

SKIN: yes

INGESTION: yes

EYE: yes

SIGNS AND SYMPTOMS OF EXPOSURE:

YES: Contact with eyes causes damage.

SKIN: Can cause skin sensitization. Avoid skin contact.

INHALATION: Vapors may be irritating and cause headache, chest discomfort, symptoms of bronchitis.

INGESTION: May cause nausea, vomiting and general systemic illness.

EMERGENCY AND FIRST AID PROCEDURE:

YES: Flush thoroughly with water. Get medical attention.

SKIN: Flush thoroughly with water. If irritation persists, get medical attention.

INHALATION: Remove to fresh air. If symptoms persist, get medical attention.

INGESTION: Do not induce vomiting. Drink copious amounts of milk. Get medical attention.

HEALTH HAZARDS(ACUTE AND CHRONIC):

Acute: As listed above under Signs and Symptoms of Exposure.

Chronic: None known from currently available information.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known from currently available information.

LISTED AS CARCINOGEN BY -

NTP: no

IARC MONOGRAPHS: no

OSHA: no

TOXICITY: ORAL LD50 (Rat). . . . . Toxicity Rating 1: 500-5000 mg/kg.

OCCULAR (Rabbit). . . . . Toxicity Rating 2: Irritating or moderately persisting more than seven days with reversible corneal opacity.

DERMAL LD50 (Rabbit). . . None by dermal route.

INHALATION LC50 (Rat). . . Irritating but non-toxic at highest concentration achieved (2.89 ppm).

## SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: For LARGE spills, use ammonium carbonate to "neutralize" glutaraldehyde odor. Collect liquid and discard it. For SMALL spills, wipe with sponge or mop down area with an equal mixture of household ammonia and water. Flush with large quantities of water.

WASTE DISPOSAL METHOD: Triple rinse empty container with water and dispose in an incinerator or landfill approved for pesticide containers. Discard solution with large quantities of water.

EPA HAZARDOUS WASTE NUMBER: na

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Use normal storage and handling requirements.

## SECTION 8 - TRANSPORTATION DATA &amp; ADDITIONAL INFORMATION

	<u>D.O.T.</u> (ground)	<u>I.A.T.A.</u> (air)	<u>I.M.O.</u> (ocean)
	NOT REGULATED	NOT RESTRICTED	NOT REGULATED
PROPER SHIPPING NAME:	2% Glutaraldehyde Solution	2% Glutaraldehyde Solution	2% Glutaraldehyde Solution
HAZARD CLASS:	None	None	None
LABELS:	None Needed	None Needed	None Needed
PACKAGING:	None	None	None
ID #:	None	None	None
SPECIAL INSTRUCTIONS:	None	None	None
REPORTABLE QUANTITY:	None		

## SECTION 9 - CONTROL MEASURES

## VENTILATION:

ROUTINE: Product should be used in a covered container. Use with standard room ventilation (air conditioning); natural draft.

EMERGENCY: Enhanced ventilation

## RESPIRATORY PROTECTION:

ROUTINE: None required

EMERGENCY: Organic vapor cartridge, canister mask

## EYE PROTECTION:

ROUTINE: Safety glasses recommended

EMERGENCY: Safety glasses

## SKIN PROTECTION:

ROUTINE: Impervious gloves

EMERGENCY: Impervious gloves; Protective clothing; Rubber boots

WORK/HYGIENIC PRACTICES: Avoid contamination of food

## SECTION 10 - SPECIAL REQUIREMENTS

None

KEY: na - Not Applicable  
nd - Not Determined  
C - Ceiling  
PEL - Permissible Exposure Level  
TLV - Threshold Limit Value  
RTECS - Registry of Toxic Effects of Chemical Substances  
\* - Trademark