



# Johnson & Johnson Medical MICROSIELD 5 Chlorhexidine Concentrate

## Chemwatch Material Safety Data Sheet

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## Section 4 - FIRST AID MEASURES

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### SWALLOWED

For advice, contact a Poisons Information Centre or a doctor.

- If swallowed do NOT induce vomiting.
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- Seek medical advice.

### EYE

If this product comes in contact with the eyes:

- Wash out immediately with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- If pain persists or recurs seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

### SKIN

No adverse effects anticipated from normal use.

- Concentrate and diluted solution is readily removed with water.
- Abraded or broken skin should be washed carefully and thoroughly.
- Seek medical attention in event of irritation.

### INHALED

- If fumes or combustion products are inhaled remove from contaminated area.

- Other measures are usually unnecessary.

### NOTES TO PHYSICIAN

Treat symptomatically.

Emesis is contraindicated as the product will foam. Gastric lavage may be considered.

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## Section 5 - FIRE FIGHTING MEASURES

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### EXTINGUISHING MEDIA

- There is no restriction on the type of extinguisher which may be used.

### FIRE FIGHTING

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves for fire only.
- Prevent, by any means available, spillage from entering drains or water courses.
- Use fire fighting procedures suitable for surrounding area.
- DO NOT approach containers suspected to be hot.
- Cool fire exposed containers with water spray from a protected location.
- If safe to do so, remove containers from path of fire.
- Equipment should be thoroughly decontaminated after use.

### FIRE/EXPLOSION HAZARD

- Non combustible.

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### Section 5 - FIRE FIGHTING MEASURES

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- Not considered to be a significant fire risk.
- Expansion or decomposition on heating may lead to violent rupture of containers.
- Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).
- May emit acrid smoke.

#### **FIRE INCOMPATIBILITY**

None known.

**HAZCHEM: None**

#### **Personal Protective Equipment**

Gas tight chemical resistant suit.

Limit exposure duration to 1 BA set 30 mins.

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### Section 6 - ACCIDENTAL RELEASE MEASURES

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#### **EMERGENCY PROCEDURES**

##### **MINOR SPILLS**

Slippery when spilt.

Clean up all spills immediately.

Wipe up.

Place in clean drum then flush area with water.

##### **MAJOR SPILLS**

Slippery when spilt.

Minor hazard.

- Clear area of personnel.
- Alert Fire Brigade and tell them location and nature of hazard.
- Control personal contact by using protective equipment as required.
- Prevent spillage from entering drains or water ways.
- Contain spill with sand, earth or vermiculite.
- Collect recoverable product into labelled containers for recycling.
- Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.
- Wash area and prevent runoff into drains or waterways.
- If contamination of drains or waterways occurs, advise emergency services.

**Personal Protective Equipment advice is contained in Section 8 of the MSDS.**

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### Section 7 - HANDLING AND STORAGE

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#### **PROCEDURE FOR HANDLING**

- Limit all unnecessary personal contact.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- When handling DO NOT eat, drink or smoke.
- Avoid physical damage to containers.
- Use good occupational work practice.
- Observe manufacturer's storing and handling recommendations.

#### **SUITABLE CONTAINER**

Plastic container.

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Section 7 - HANDLING AND STORAGE

- Check that containers are clearly labelled.
- Packaging as recommended by manufacturer.

### STORAGE INCOMPATIBILITY

None known.

### STORAGE REQUIREMENTS

Keep cool. Store below 25 deg.C.

Protect from light.

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.
- Protect containers against physical damage and check regularly for leaks.
- Observe manufacturer's storing and handling recommendations.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE CONTROLS

The following materials had no OELs on our records

- chlorhexidine gluconate: CAS:18472- 51- 0
- nonylphenol, ethoxylated: CAS:9016- 45- 9 CAS:26027- 38- 3
- water: CAS:7732- 18- 5

### MATERIAL DATA

None assigned. Refer to individual constituents.

#### INGREDIENT DATA

NONYLPHENOL, ETHOXYLATED:

WATER:

No exposure limits set by NOHSC or ACGIH.

CHLORHEXIDINE GLUCONATE:

CEL TWA: 0.0027 ppm; 0.1 mg/m<sup>3</sup>\*

\*[AstraZeneca]

### PERSONAL PROTECTION

#### EYE

No special equipment for minor exposure i.e. when handling small quantities.

- OTHERWISE:

- Safety glasses with side shields.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

#### HANDS/FEET

None under normal operating conditions.

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## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### OTHER

- Overalls.
- Eyewash unit.

### RESPIRATOR

Respiratory protection is required when ANY "Worst Case" vapour-phase concentration is exceeded (see Computer Prediction in "Exposure Standards").

Protection Factor (Min)	Half- Face Respirator	Full- Face Respirator
10 x ES	A- AUS A- PAPR- AUS	- -
50 x ES	- -	A- AUS A- PAPR- AUS
100 x ES	- -	A- 2 A- PAPR- 2

^ - Full-face.

The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required.

For further information consult site specific CHEMWATCH data (if available), or your Occupational Health and Safety Advisor.

### ENGINEERING CONTROLS

None under normal operating conditions.

Use only in well ventilated areas.

Avoid creation of aerosols.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE

Clear red liquid with a cologne fragrance; mixes with water.

### PHYSICAL PROPERTIES

Liquid.

Mixes with water.

Molecular Weight: Not applicable

Melting Range (°C): Not available

Solubility in water (g/L): Miscible

pH (1% solution): Not available

Volatile Component (%vol): Not available

Relative Vapour Density (air=1): Not available

Lower Explosive Limit (%): Not applicable

Autoignition Temp (°C): Not available

State: Liquid

Boiling Range (°C): Not available

Specific Gravity (water= 1): 1.015

pH (as supplied): < 7.0

Vapour Pressure (kPa): Not available

Evaporation Rate: Not available

Flash Point (°C): Not applicable

Upper Explosive Limit (%): Not applicable

Decomposition Temp (°C): Not available

Viscosity: Not Available

## Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

### CONDITIONS CONTRIBUTING TO INSTABILITY

Product is considered stable and hazardous polymerisation will not occur.

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## Section 11 - TOXICOLOGICAL INFORMATION

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### POTENTIAL HEALTH EFFECTS

#### ACUTE HEALTH EFFECTS

##### SWALLOWED

Ingestion may result in nausea, abdominal irritation, pain and vomiting.  
Considered an unlikely route of entry in commercial/industrial environments.

##### EYE

The material may be irritating to the eye, with prolonged contact causing inflammation.  
Repeated or prolonged exposure to irritants may produce conjunctivitis.

##### SKIN

Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.  
Not considered to cause discomfort through normal use.

##### INHALED

Not normally a hazard due to non-volatile nature of product.

#### CHRONIC HEALTH EFFECTS

There exists limited evidence that shows that skin contact with the material is capable either of inducing a sensitisation reaction in a significant number of individuals, and/or of producing positive response in experimental animals.  
Chronic ingestion of chlorhexidine can result in liver and kidney damage.

#### TOXICITY AND IRRITATION

Not available. Refer to individual constituents.

##### CHLORHEXIDINE GLUCONATE:

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

##### TOXICITY

Oral (rat) LD50: 2000 mg/kg

Subcutaneous (rat) LD50: 3320 mg/kg

Intravenous (rat) LD50: 24.2 mg/kg

##### IRRITATION

Nil Reported

##### NONYLPHENOL, ETHOXYLATED:

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

##### TOXICITY

Oral (rat) LD50: >2000 mg/kg

Dermal (rabbit) LD50: 2830 ul/kg

##### IRRITATION

Skin (human): 15 mg/3D Mild

Skin (rabbit): 500 mg Mild

Eye (rabbit): 5 mg SEVERE

##### WATER:

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.  
No significant acute toxicological data identified in literature search.

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## Section 12 - ECOLOGICAL INFORMATION

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No data for J&J Medical Microshield 5 Chlorhexidene Concentrate.  
Refer to data for ingredients, which follows:

##### CHLORHEXIDINE GLUCONATE:

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## Section 12 - ECOLOGICAL INFORMATION

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

DO NOT discharge into sewer or waterways.

NONYLPHENOL, ETHOXYLATED:

Fish LC50 (96hr.) (mg/l): 1.0- 11.2

Toxicity Fish: LC50(96)0.14-0.23mg/L

(Daphnia magna) 48hr EC50: 86 mg/L \*

(rainbow trout) 96hr LC50: 18 mg/L \*

Toxicity invertebrate: LC50(144)5mg/L

Bioaccumulation: not significant

Degradation Biological: some with acclim

\* [Huntsman]

## Section 13 - DISPOSAL CONSIDERATIONS

- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.
- Bury residue in an authorised landfill.
- Recycle containers if possible, or dispose of in an authorised landfill.

## Section 14 - TRANSPORTATION INFORMATION

HAZCHEM: None

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS:UN, IATA, IMDG

## Section 15 - REGULATORY INFORMATION

**POISONS SCHEDULE: S6**

### REGULATIONS

chlorhexidine gluconate (CAS: 18472-51-0) is found on the following regulatory lists;  
Australia Inventory of Chemical Substances (AICS)

nonylphenol, ethoxylated (CAS: 9016-45-9) is found on the following regulatory lists;  
Australia High Volume Industrial Chemical List (HVICL)  
Australia Inventory of Chemical Substances (AICS)  
OECD Representative List of High Production Volume (HPV) Chemicals  
OSPAR List of Substances of Possible Concern

nonylphenol, ethoxylated (CAS: 26027-38-3) is found on the following regulatory lists;  
Australia Inventory of Chemical Substances (AICS)

water (CAS: 7732-18-5) is found on the following regulatory lists;

Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Appendix E (Part 2)

Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Appendix F

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Section 15 - REGULATORY INFORMATION

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(Part 3)

OECD Representative List of High Production Volume (HPV) Chemicals

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## Section 16 - OTHER INFORMATION

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### INGREDIENTS WITH MULTIPLE CAS NUMBERS

Ingredient Name

CAS

nonylphenol, ethoxylated

9016- 45- 9, 26027- 38- 3

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

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