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**SAFETY DATA SHEET**

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**Section 1: IDENTIFICATION of CHEMICAL PRODUCT and COMPANY**

**Product Name:** Disinfectant Commercial Grade Microcide

**Product Code:** 500870 (5 L); 500875 (20 L)

**Recommended Use:** A biodegradable, multi purpose total disinfectant and cleaner for the disinfection of poultry, pig and dairy premises and equipment.

**Company Identification:** Jurox Pty Limited

**Address:** 85 Gardiner Street  
Rutherford NSW 2320  
Australia

**Customer Centre:** 1800 023 312

**National Poisons Information Centre:** 131126 (Australia-wide)

**Emergency Telephone Number:** 1800 023 312 (9a.m. – 5p.m.)

**GHS Hazard Classifications:** Acute Aquatic Hazard Category 1  
Acute Toxicity (Inhalation) Category 3  
Acute Toxicity (Oral) Category 4  
Acute Toxicity (Dermal) Category 3  
Metal Corrosion Category 1  
Respiratory Sensitizer Category 1  
Skin Corrosion/Irritation Category 1C  
Skin Sensitizer Category 1  
STOT - SE (Narcosis) Category 3

**GHS Pictograms:**

Skull



Health hazard



Corrosive

Exclamation  
mark

Aquatic pollutant

**Signal Word\*:** Danger

**Hazard Statements\*:** May be corrosive to metals.  
Harmful if swallowed.  
Toxic in contact with skin.  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
Toxic if inhaled.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause drowsiness or dizziness.  
Very toxic to aquatic life.

**Precautionary Statements\*:** **Prevention**  
Keep only in original container.  
Do not breathe vapours.  
Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid release to the environment.  
Wear protective gloves, protective clothing and eye protection.  
In case of inadequate ventilation wear respiratory protection.

**Response**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTRE or doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice.  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse.  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTRE or doctor.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Absorb spillage to prevent material damage.

**Storage**

Store in corrosive resistant container or with a resistant inner liner in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal**

Dispose of contents / container in accordance with label directions.

\* N.B.: These statements are determined by Work Health and Safety regulations and may not reflect Signal Headings and First Aid and Safety statements on product labelling, which are determined by a competent authority during assessment for registration.

**Section 3: COMPOSITION / INFORMATION on INGREDIENTS**

INGREDIENT	CAS No.	CONTENT
Glutaraldehyde	111-30-8	12.4%
Didecyldimethylammonium chloride	7173-51-5	4.1%
p-nonylphenoethoxylate	26027-38-3	< 10%
Phosphoric acid (85%)	7664-38-2	< 1%
Water	7732-18-5	> 60%

**Section 4: FIRST AID MEASURES**

- First Aid Measures:** Consult the National Poisons Centre on 131126 or a doctor immediately in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If medical advice/attention is needed, have product container or label at hand.
- Inhalation:** Harmful if inhaled. If respiratory symptoms occur, remove patient to fresh air. Lay patient down and keep warm and rested. If breathing is shallow or has stopped, ensure airway is clear and apply resuscitation. If breathing is difficult, give oxygen. Seek medical assistance immediately. Perform CPR if necessary.
- Ingestion:** Harmful if swallowed. Urgent hospital treatment is likely to be needed. If swallowed, DO NOT induce vomiting. Rinse mouth. Keep subject warm and at rest. If patient about to vomit, hold patient's head down (lower than their hips) to avoid aspiration of vomitus. For advice, contact the National Poisons Centre on 131126.
- Skin:** May cause burns. If skin or hair contact occurs, immediately flush body and clothes with large amounts of water, using safety shower if available. Continue flushing with water until advised to stop by the Poisons Information Centre or a doctor. Transport to hospital or doctor.
- Eye:** Risk of serious damage to eyes. If eye contact occurs, hold eyes open and rinse cautiously with running water. Ensure irrigation under eyelids by occasionally lifting eyelids. Remove contact lenses if trained to do so. Continue rinsing until advised to stop by the Poisons Information Centre or a doctor, or for at least 20 minutes. Then transport to hospital or doctor immediately. Eye wash stations or baths should be available where product is being used.
- Chronic:** Due to the presence of glutaraldehyde, prolonged or repeated exposure may lead to respiratory or skin sensitisation.
- Advice to Doctor:** Treat symptomatically. Any material aspirated during vomiting may produce lung injury.

## Section 5: FIRE FIGHTING MEASURES

<b>Flash Point:</b>	Not flammable. Not combustible.
<b>Hazardous Combustion Products:</b>	If involved in a fire, may emit noxious and corrosive fumes.
<b>Extinguishing Media:</b>	There is no restriction on the type of extinguisher which may be used. Use extinguishing media suitable for surrounding area. Foam may be required if water evaporates from the mixture.
<b>Protective Equipment:</b>	Gas-tight chemical resistant suit, protective gloves and breathing apparatus. Limit exposure duration to 1 BA set 30 mins.
<b>HAZCHEM Code:</b>	2X.

## Section 6: ACCIDENTAL RELEASE MEASURES

<b>Spills and Disposal:</b>	<p>Wear appropriate protective clothing. Exclude non-essential people from the area.</p> <p>For minor spills, contain spill and sweep up / absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Ventilate area and wash spill site after pick-up complete. Dispose of waste safely in an approved landfill.</p> <p>For major spills, clear area of personnel and move upwind. Alert Fire Brigade and /or Emergency Services of location and nature of hazard. Wear full protective clothing including self contained breathing apparatus and protective gloves. Stop leak if safe to do so and contain spill. Prevent, by any means possible, spillage from entering drains or water course.</p> <p>Slippery on floors, especially when wet. Launder all contaminated clothing before re-use.</p>
<b>Protective Clothing:</b>	For appropriate personal protective equipment see section 8.
<b>Environmental Precautions:</b>	Prevent from entering drains, waterways or sewers. If contamination of drains and waterways occurs, advise local authority.

## Section 7: HANDLING AND STORAGE

<b>Handling:</b>	Keep out of reach of children. Read safety directions before opening or using. Avoid contact with skin, eyes and inhalation of vapours. Avoid contact with clothing. Use personal protective equipment as required – see label. Do not eat, drink or smoke while handling product. After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves and face-shield or goggles and contaminated clothing. Do not mix the product with detergents and other chemicals.
<b>Storage:</b>	Keep out of reach of children and other unauthorised persons. This material is classed as a Dangerous Good Class 8, Packing Group III, UN No. 1760. Observe appropriate DG regulations for storage and transport. Store in original container, as cool as possible in a safe place in a well-ventilated area. Do not store for prolonged periods in direct sunlight. Keep away from foodstuffs. Containers should be kept closed in order to minimise contamination. Keep away from extreme heat and open flames.
<b>Other Information:</b>	Always read the label before use. See label for further information on handling and storage.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

This SDS describes personal protective measures relating to long term industrial and manufacturing exposure and emergency situations, such as accidents and spills. See product label for personal protective measures during normal use of the marketed product.

- Exposure Limits:** Avoid breathing vapours. Do not handle until all safety precautions have been read and understood.
- The Australian Exposure Standards peak limitation for glutaraldehyde is 0.1 ppm or 0.41 mg/m<sup>3</sup>.
- Protective Equipment:** When using the product, wear protective elbow length chemical protective gloves (e.g. PVC), chemical goggles with or without supplementary full face shield, safety footboots or gumboots (e.g. rubber) and protective clothing (with trousers or overalls outside of boots, to avoid spills entering boots). If risk of overexposure exists, wear a respirator (not cartridge type). It is also advisable to have an eyewash unit and ready access to a safety shower.
- Engineering Controls:** Handle in a well ventilated area. General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in special circumstances. If risk of overexposure exists, wear a respirator (not cartridge type).
- Hygiene Precautions:** Do not drink, eat or smoke when handling this product. Remove protective clothing and wash hands and face thoroughly before meals and after handling. Wash protective clothing daily after work. Contaminated clothing should not be allowed out of the workplace.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Clear red-brown liquid.	<b>Lower flammability limits:</b>	Not available.
<b>Odour:</b>	Characteristic pungent odour.	<b>Vapour Pressure:</b>	100 kPa.
<b>Odour threshold:</b>	Not available.	<b>Vapour density:</b>	Not available.
<b>pH:</b>	1.5 – 2.0 (at 20°C).	<b>Relative density:</b>	Not applicable.
<b>Melting Point:</b>	Not available.	<b>Specific Gravity:</b>	0.98 – 1.08 at 20°C.
<b>Boiling Point:</b>	~100°C.	<b>Solubility in Water:</b>	Soluble.
<b>Flash Point:</b>	Not flammable. Not combustible.	<b>Partition coefficient:</b>	Not applicable.
<b>Evaporation Rate:</b>	Not available.	<b>Auto-ignition temperature:</b>	Not available.
<b>Flammability:</b>	Not flammable.	<b>Decomposition temperature:</b>	Not available.
<b>Upper flammability limits:</b>	Not available.	<b>Viscosity:</b>	Not available.

**Section 10: STABILITY AND REACTIVITY**

- Stability:** When stored appropriately this product should show no significant degradation for at least 2 years.
- Hazardous Polymerisation:** Not known to occur.
- Materials to Avoid:** Reacts with mild steel, galvanised steel / zinc. Glutaraldehyde is incompatible with caustics, ammonia, amines, acetophenone, acetyl benzene and xylidene. Segregate from alkalies, oxidising agents, cyanides, sulfides and carbonates. Avoid strong bases.

### Section 11: TOXICOLOGICAL INFORMATION

- Inhalation:** Harmful by inhalation. May cause coughing, chest discomfort and lung damage. May cause respiratory sensitisation.  
 Glutaraldehyde: Inhalation LC<sub>50</sub>: 480 mg/m<sup>3</sup> (rat)
- Ingestion:** Harmful if swallowed. Moderately toxic by ingestion.  
 Glutaraldehyde: Oral LD<sub>50</sub>: 134 mg/kg (rat); 100 mg/kg (mouse); 50 mg/kg (guinea pig, duck).  
 Didecyl dimethyl ammonium chloride: Oral LD<sub>50</sub>: 84 mg/kg (rat); 268 mg/kg (mouse).
- Skin:** May cause burns. Irritating to the skin. May cause sensitisation by skin contact.
- Eye:** Irritant to the eyes. Risk of serious injury to the eye.
- Chronic Effects:** Due to the presence of glutaraldehyde, prolonged or repeated exposure may lead to respiratory or skin sensitisation.
- Mutagenicity:** Not considered to be mutagenic, based on the results of animal studies.
- Carcinogenicity:** Not considered to be carcinogenic, based on the results of animal studies.
- Reproductive Toxicity:** Not known to be a reproductive toxicant.

### Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**Glutaraldehyde:**

*Daphnia magna* (Water flea) LC<sub>50</sub> (48 h) 0.35 mg/L

*Scenedesmus subspicatus* (Algae) EC<sub>50</sub> (72 h) 0.61 mg/L

*Oncorhynchus mykiss* (Rainbow trout) LC<sub>50</sub> (96 h) 3.5 mg/L

**Didecyl dimethyl ammonium chloride:**

*Pimephales promelas* (Fathead minnow) LC<sub>50</sub> (96 h) 0.33 mg/L

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation	Mobility
Glutaraldehyde	LOW	No data available	LOW	HIGH
Alcohols C12-15 ethoxylated	No data available	No data available	LOW	No data available
Didecyl dimethyl ammonium chloride	No data available	No data available	No data available	No data available

### Section 13: DISPOSAL INFORMATION

- Product Disposal:** Dispose of product only by using according to label or at an approved landfill.
- Container Disposal:** Triple rinse empty containers adding rinsate to the spray tank, or dispose of rinsate with empty container. Puncture top, bottom and sides of empty container, then crush or bury in an approved landfill, or bury under at least 500 mm of soil in a non-crop, non-pasture area away from water sources or homes.

### Section 14: TRANSPORT INFORMATION

**Dangerous Goods Classification:** This material is categorized as Class 8, Packing Group III, UN No. 1760, Proper Shipping Name: Corrosive Liquid, N.O.S. (Contains Glutaraldehyde) for the purposes of the Australian Code of Transport for Dangerous Goods by Road and Rail. Observe appropriate State regulations for storage, transport and sale.

**HAZCHEM Code:** 2X.

**Section 15: REGULATORY INFORMATION**

**Poisons Schedule:** S6  
**APVMA Registration Nos:** 46484

**Section 16: OTHER INFORMATION**

This information is based on data believed by Jurox Pty Limited to be accurate at the time of writing but is subject to change without notice. It is given in good faith, but no warranty expressed or implied is made as to its accuracy, completeness otherwise and no assumption of liability from howsoever arising is made by Jurox Pty Limited by reason of the provision of this information. Every person dealing with the materials referred to herein do so at his/her own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.

This SDS **supercedes the version created on 17 May 2011** and updates the format as per the Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals, December 2011, published by Safe Work Australia.

**Legend**

**Carcinogen** means a substance or a mixture which induce cancer or increase its incidence.

**CAS No.** means a unique number assigned to a chemical by the Chemical Abstracts Service.

**EC<sub>50</sub>** means the effective concentration of substance that causes 50% of the maximum response.

**Flashpoint** means the lowest temperature (corrected to a standard pressure of 101.3 kPa) at which the application of an ignition source causes the vapours of a liquid to ignite under specified test conditions.

**GHS** means the *'Globally Harmonized System of Classification and Labelling of Chemicals'*, published by the United Nations.

**LC<sub>50</sub> (50% lethal concentration)** means the concentration of a chemical in air or of a chemical in water which causes the death of 50% (one half) of a group of test animals.

**LD<sub>50</sub>** means the median lethal dose, being a statistically derived single dose of a substance that can be expected to cause death in 50% of animals.

**Mutagen** means an agent giving rise to an increased occurrence of mutations in populations of cells and / or organisms.

**PVC** means Polyvinyl chloride.

**References**

ChemIDPlus, entry for Glutaral (RN: 111-30-8), Didecyl dimethyl ammonium chloride (RN: 7173-51-5), Nonoxynol 15 (RN: 26027-38-3) and Phosphoric acid (RN: 7664-38-2).

HSDB <http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB>, entry for Glutaraldehyde (CASRN: 111-30-8), Didecyl dimethyl ammonium chloride (CASRN: 7173-51-5), Nonoxynol (CASRN: 26027-38-3) and Phosphoric acid (CASRN: 7664-38-2).

New Zealand Environmental Protection Authority, HSNO Chemical Classification and Information Database (CCID), entry for Pentanedial, (glutaraldehyde) (CAS Number: 111-30-8), Didecyl dimethyl ammonium chloride (CAS Number: 7173-51-5) and Nonoxynol (CAS Number: 26027-38-3).

**END OF SDS**