



# SOLGIENE

ECO-FRIENDLY HEALTH SOLUTIONS

## MATERIAL SAFETY DATA SHEET

### Solgiene High Level Sporocidal Disinfectant

An excellent medical instrument disinfectant cleaner

#### COMPANY DETAILS

Manufactured under license for: Noble Techniques Ltd  
Address: 106 Datonia street  
Bellaire  
Texas  
77401  
E-mail Address: info@nobletechniques.com

#### 1. PRODUCT NAME:

Trade Name: Solgiene High Level Sporocidal Disinfectant  
Product code: SOL601  
Product Type/General Information: Sporocidal sterilising solution, disinfectant surfactant and detergent  
Registration Number: The list of registrations are as follows:  
\*\*Act 29GNR529/251794/020/598

#### 2. COMPOSITION:

Chemical Name: (active ingredient) 2% - 3% patented Glutaral C11-C15 Pareth 9  
INCI name: Glutaral C11-C15 Pareth 9  
Hazardous Chemicals: Glutaraldehyde  
Routes of Entry: Inhalation X Skin/Eye X Ingestion X

Note: There is no sulphonic acid, CDE or any other type of ethanolamine in this formulation.

CAS NO of components.  
CAS 111-30-8 BIOCIDE  
CAS 84133-50-6 SURFACTANT

### 3. HAZARDS IDENTIFICATION:

Solgiene High Level sporocidal disinfectant contains the following hazardous ingredients at concentrations greater than 1.0%

Chemical components:	None
OSHA PEL:	0.2 ppm <sup>1</sup>
ACGIH TLV:	0.05 ppm

Solgiene High Level sporocidal disinfectant contains the following hazardous ingredients listed as carcinogens or potential carcinogens by the National Toxicology Program (NTP), International Agency on Cancer (IARC) or OSHA, and present at a concentration greater than 0.1%:

Chemical components:	None
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<sup>1</sup>The OSHA Permissible Exposure Level (PEL) for glutaraldehyde was invalidated in 1992 by court order. However, the PEL may remain valid in some OSHA approved state plans, and also can be enforced by federal OSHA under the General Duty Clause.

If G-cide is used in accordance to the label instructions none of these limits will be exceeded.

### 4. FIRST AID MEASURES:

Ingestion: **Do not induce vomiting.** Drink large quantities of water.

Note to the physician:

Probable mucosal damage from oral exposure of large quantity of ingestion of undiluted Solgiene HLD solution may contraindicate the use of gastric pump.

Eyes: Immediately flush eyes with water and continue washing for at least 2 minutes.

Skin: Wash with plenty of water.

Inhalation: Normally none required, however if needed the person is to be removed to fresh air.

Medical Conditions Generally Aggravated by Overexposure: See above.

### 5. FIRE FIGHTING MEASURES:

Flash Point (Test Method):	None (Tag Closed Cup ASTM D 56)
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Special Fire Fighting Procedures:	Self-Contained Breathing Apparatus (SCBA) and protective clothing should be worn when fighting chemical fires.
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Unusual Fire and Explosion Hazards:	None known
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Extinguishing Media:	Carbon dioxide, foam, dry chemical.
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### 6. ACCIDENTAL RELEASE MEASURES:

- Steps to be taken if material is released or spilled:  
Wear suitable protective equipment, including latex gloves.

For small spills of 5 litres or less, use a bucket of water and a sponge or mop. Mop or sponge the water into the spill until thoroughly combined. Wipe or mop up resulting spill followed by a final mop up with fresh water. Re-rinse all equipment and allow spill area to dry.

For large spills of more than 5 litres, remove people from immediate spill area as it will be very slippery, and isolate until cleaned up. Contain spill with absorbent material, i.e. paper towels. With a sponge type mop pick up as much of the spillage as possible. Discard the waste into a bin according to your facility's waste disposal guidelines. OR wash the area down with plenty of water to drain or sewer, using a hose pipe. Then Mop the spill area with fresh water. Rinse out all equipment (bucket, mop, and towel) with large amount of water. If paper towels were used, dispose of in a tightly closed trash bag. Let spill area dry before allowing people traffic to ensure no one can slip on the floor.

- Waste disposal method: Disposal of Solgiene HLD may be accomplished by pouring solution down the drain in accordance with state and local regulations. Flush with a large quantity of water. Rinse thoroughly with water and dispose of the container in the trash bin.
- Precautions to be taken in handling and storing: Solgiene HLD should be stored in its original sealed container at room temperature (15°C to 30°C).
- Precautionary labelling: Avoid contact with eyes the undiluted product as it will sting the eyes.

## 7. HANDLING AND STORAGE:

Eye Protection:	Safety glasses for handling of solutions greater than 3% active G-cide. An eyewash should be available for emergency situations.
Ventilation:	None specially required, however ensure that there is plenty of fresh air coming into the production area.
Skin Protection:	Nitrile gloves should be worn when working with the HLD cleaner of concentrations of 5% and higher active G-cide. Use normal latex gloves for solutions of less than 3%. Rubber boots may be needed to contain large spills.
Respiratory Protection:	None required

DO NOT STORE THIS PRODUCT IN DIRECT SUNLIGHT. DO NOT MIX WITH ANY OTHER CHEMICALS WITH OUT THE PERMISSION OF THE MANUFACTURER.

Handling of the finished packed product

Handle with care and for any spillages follow procedures in section 6 above.

USER handling: Wear gloves, goggles and follow section 4 for any spillages on skin, eyes etc. Use in a well-ventilated room separate from the patient.

PLEASE NOTE: this product is not compatible with chlorhexidene gluconate or enzyme cleaners. If these chemicals are used, they need to be well rinsed off the items to be disinfected using this product. Proteins, body fluids, blood must not come in contact with this product as the product fixes proteins. Due to this product having a surfactant in its formulation fixed proteins are able to be washed off. For best results follow our label instructions and training charts.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION:

Route of Entry: Must not be through inhalation, skin and eyes

Signs and Symptoms Associated with Overexposure (one-time or repeated):

- a) Ingestion of solution containing 5% of Solgiene High Level sporocidal disinfectant or higher: May cause irritation and possibly a stinging feeling in the mouth, throat, stomach and oesophagus. May produce discomfort in the mouth, throat, chest and abdomen, nausea, vomiting, diarrhoea, thirst and weakness. No problems with solutions of less than 0.5% active G-cide
- b) Eyes: Avoid eye contact with solutions greater than 0.5% active G-cide. Solution contact of less than 0.5% active G-cide may cause no more damage than getting any concentrated soap in one's eye.
- c) Skin: Not skin irritant. Avoid contact on existing dermatitis. Solutions of greater than 2% may cause skin to discolour brownish. The discolouration will be removed by five times washing over a two-day period. No skin discolouration observed with contact of solutions less than 0.5% active G-cide
- d) Inhalation: none provided label instructions are followed.

Reference: The final assessment of the safety of Glutaral 1996 by the CTFA.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid( colour dependant on brand and application)
Odor:	Dependant on brand and application
pH:	5.5 - 7.8
Boiling point:	100° C
Melting point:	Not applicable
Flash point:	Not applicable
Flammability:	Nil
Freezing point:	0° C/32° F (Same as Water)
Evaporation rate:	Not applicable
Specific Gravity:	1.1
Oxidizing Properties:	Nil
Vapor pressure:	1.1 (air=1)
Solubility:	Water: Completely
Neurotoxicity:	Nil.

## 10. STABILITY AND REACTIVE

Stability	Stable for one year
Hazardous Polymerization:	Will not occur at temperature between -4° C and +40° C
Hazardous Decomposition Products:	Nil.
Conditions and Materials to Avoid:	Enzyme cleaners, Ammonia, Amine containing products.

## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity:	Toxic at 5% active G-cide, non-toxic at less than 0.5% active G-cide.
Acute toxicity dermal:	None
Acute toxicity inhalation:	None
Eye irritation:	Avoid eye contact with solutions of greater than 0.5% active G-cide. Stings the eye, but will cause no long lasting impairment. Do not use on contact lenses.
Skin Irritation:	>2% G-cide will discolour skin a brownish colour, which will disappear after five washing over two days. No discolouration nor irritation will be experienced with solutions of less than 0.3% active G-cide, for normal skin.
Skin sensitization:	None.

## 12. ECOLOGICAL INFORMATION

Biodegradability:	All the ingredients of this product are biodegradable by greater than 90%. Resulting broken down elements of the product are carbon dioxide and water.
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## 13. DISPOSAL CONSIDERATIONS

Disposal methods:	Dispose in accordance with local legislation
Disposal of packaging:	No special precautions

## 14. TRANSPORT INFORMATION

Proper Shipping Name:	High Level Sporicidal disinfectant		
DOT (ground):	Not regulated		
IATA (air):	Not regulated	IMO (ocean):	Not regulated
Hazard Class:	None	Labels:	None needed
ID#:	None	Special Instructions:	None
Reportable Quantity:	None		

## 15. REGULATORY INFORMATION

Compulsory Act 5 for disinfectants / detergents registered. REG No. see above.  
EN 1276 Anti-bacterial, EN 1650 Anti-fungal and EN 14476 Anti-viral  
Sporicidal tested, tested for efficacy against multi drug resistant TB

EC classification.	Non-flammable
EC Risk phrase :	None
EC safety phrase:	None

Contains: water, surfactants, biocide, perfume, colorants, and quick drying agents.  
CTFA approved in the international cosmetics dictionary for cosmetics ingredients, with its own INCI name.  
Norway and French regulations.

## 16. OTHER INFORMATION

G-cide's stabilised Glutaral c11-c15 Pareth 9 complex complies with the OSHACT requirements if the manufacturer's instructions are followed.

NB before a new client uses this product please follow the Quality Assurance steps below:

1. Visit the site where product is to be used.
2. Check that the site has at least 12 fresh air changes per minute.
3. Train the staff on how to use this product safely
4. Have all staff using this product X-rayed (lung area). These X-rays are to be repeated annually.
5. On the busiest day of working with this product, measure the airborne aldehyde using the Glutimeter system. Results are to be divided by 2 to give the dialdehyde result. Results are to be written on the chart on the wall on site where the product is used.

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