

Section 1. Chemical Product and Company Information	
Common Name: 3% Glutaraldehyde Solution	Code: MA0602001
Supplier: BBC Biochemical	MSDS#: MA0602001
Synonym:	Validation Date: 3-2-09
Trade Name: Not available	Print Date: 3-2-09
Material Uses: Not available	Responsible Name: Dr. B
Manufacturer: BBC Biochemical PO Box 1320 409 Eleanor Lane Mount Vernon, WA 98273 1-800-635-4477	In Case of Emergency: 1-800-424-9300 Chemtrec USA 1-202-483-7616 Chemtrec Intrl 1-800-635-4477

Section 2. Composition and Information on Ingredients			
Name	CAS#	% by Weight	Exposure Limits
1) Glutaraldehyde	111-30-8	3%	Not available
2) Water	7732-18-5	97%	Not available
3) Select Buffers	N/A		Not available

Section 3. Hazards Identification	
Physical State and Appearance	Liquid, colorless to light yellow.
Emergency Overview	Not available.
Routes of Entry	Eye contact, inhalation, ingestion, skin contact.
Potential Acute Health Effects	
Eyes	Irritation may cause permanent damage.
Skin	Slightly hazardous in case of skin contact, irritant, may produce burns
Inhalation	Lung irritant, lung sensitizer.
Ingestion	May cause allergic reaction. Irritation to throat and respiratory system.
Potential Chronic Health Effects	
Medical Conditions Aggravated by Overexposure	May have carcinogenic effects. Mutagenic for mammalian somatic cells. (Glutaraldehyde)
Overexposure/Signs/Symptoms	

Section 4. First Aid Measures	
Eye Contact	Check for and remove contacts. Immediately flush thoroughly with water for at least 15 minutes. Get medical attention.
Skin Contact	Wash thoroughly with water. Remove contaminated clothing at once (launder before reuse); discard contaminated shoes. Get medical attention.
Inhalation	Remove to fresh air; give artificial respiration if breathing has stopped. If breathing is difficult, give oxygen.
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as collar, tie, belt or waistband. Get medical attention immediately.
Notes to Physician	Not available.

Section 5. Fire Fighting Measures	
Flammability of the Product	Not available.
Auto-ignition Temperature	Not available.
Flash Points	None.
Flammable Limits	Not available.

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Products of Combustion	When heated to decomposition, it emits acrid smoke and fumes.
Fire Hazards in Presence Of Various Substances	Not available.
Explosion Hazards in Presence of Various Substances	Risk of explosion of the product in presence of mechanical impact. Risk of explosion of the product in the presence of static discharge.
Fire Fighting Media and Instructions	N/A
Protective Clothing (Fire)	
Special Remarks on Fire Hazards	
Special Remarks on Explosion Hazards	

Section 6. Accidental Release Measures

Small Spill and Leak	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
Large Spill and Leak	Poisonous Liquid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements, or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7, Handling and Storage

Handling /Precautions	Keep Locked up. Do not ingest. Do not breathe gas/fumes/ vapor/ spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, alkalis.
Storage	Light sensitive, refrigerate, store in light resistant containers. Keep containers tightly closed. Keep containers in a cool, well ventilated area.

Section 8. Exposure Controls / Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	
Eyes	Safety glasses with side shields must be worn at all times.
Body	Impervious protective clothing must be worn to prevent skin contact.
Respiratory	Vapor respirator.
Hands	Neoprene, nitrile or equivalent gloves.
Feet	Not available.
Personal Protection in Case of a Large Spill	Safety glasses with side shields, impervious protective clothing, respirator if necessary and neoprene, nitrile or equivalent gloves.
Product Name	Exposure Limits
1)Water	
2)Glutaraldehyde	
3)	
Consult Local authorities before acceptable exposure limits.	

Section 9. Physical and Chemical Properties

Physical State and Appearance	Clear liquid.	Odor:	Mild, like rotten apples.
Molecular Weight	Not applicable.	Taste:	Not available.
Molecular Formula	Not applicable.	Color:	Clear to light yellow.
pH (1%/Water)	Not applicable.		
Boiling/Condensation Point	101 Degrees Celsius. 213.8 F.		
Melting/Freezing Point	-6 C. 21.2 F		
Critical Temperature	Not applicable.		
Specific Gravity	Not applicable.		
Vapor Pressure	Not applicable.		
Vapor Density	Not applicable.		
Volatility	Not applicable.		
Odor Threshold	.04ppm		

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Evaporation Rate	Not applicable.
VOC	Not available.
Viscosity	Not available.
Ionicity (in water)	Not available.
Dispersion Properties	See solubility in water, diethyl ether.
Solubility	Easily soluble in cold water. Soluble in diethyl ether. Soluble in benzene, ethanol and other organic solvents.
Physical Chemical Comments	Not available.

Section 10. Stability and Reactivity

Stability and Reactivity	Stable.
Conditions of Instability	Avoid contact with ignition sources.
Incompatibility with Various Substances	Reactive with oxidizing agents, alkalis.
Hazardous Decomposition Products	N/A
Hazardous Polymerization	Not available.

Section 11. Toxicological Information

Toxicity to Animals	For a 50% Glutaraldehyde Solution: BASIS OF 4 HOUR EXPOSURE: Acute Oral Toxicity (LD50): 100mg/kg (Mouse) Acute dermal toxicity (LD50): . 2500mg/kg (Rat) Acute toxicity of the vapor (LC50): 480mg/m3 4 hours (Rat)
Chronic Effects on Humans	Carcinogenic effects. Mutagenic effects. Developmental effects.
Other Toxic Effects on Humans	Hazardous in case of skin contact, (irritant) of ingestions, of inhalation (lung irritant, lung sensitizer). Slightly hazardous in case of skin contact (sensitizer, permeator).
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	Not available.

Section 12. Ecological Information

Ecotoxicity	Not available.
BODS and COD	Not available.
Biodegradable/OEDC	Not available.
Mobility	Not available.
Toxicity of the Products of Biodegradation	Not available.
Special Remarks on The Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Information	Waste must be disposed according to federal, state and local environmental control regulations.
Waste Stream	Not available.
Consult your local or regional authorities.	

Section 14. Transport Information

DOT Classification	Not hazardous.
Marine Pollutant	Not available.
Hazardous Substances Reportable Quantity	Not available.
Special Provisions for Transport	Not applicable.
TDG Classification	Not controlled under TDG (Canada).

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ADR/RID Classification	Not controlled under ADR (Europe).
IMO/IMDG Classification	Not controlled under IMDG.
ICAO/IATA Classification	Not controlled under IATA.

Section 15. Other Information				
Label requirements				
Hazardous Material Information System (U.S.A.)	Health	1	National Fire Protection Association (U.S.A.)	
	Fire Hazard	0		
	Reactivity	0		
	Personal Protection			
References				
Other Special Considerations				
Notice to Reader				
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