

1696 West Grand Avenue, Oakland, CA 94607-1607 Tel (510) 839-1000 - Fax (510) 839-1090

Commercial and Industrial Water Treatment Programs Since 1927

Product Information:

Trade Name (as labeled):	SKASOL MICROBIOCIDE-4
Manufacturer's Name	Skasol Incorporated
Address (complete mailing address):	1696 West Grand Avenue
	Oakland, California 94607-1607
24 Hour Emergency Telephone	(800) 424-9300
Information Telephone	(510) 839-1000
Date prepared or revised	January 1, 1999
Name of preparer	Jessica Hansen

Hazardous Ingredients:

Chemical Name	CAS Number	Percent	Limits in Air ACGIH TLV	(give units) OSHA PEL	Other (specify)
Glutaraldehyde	111-30-8	<20%	0.2mg/m ³	0.2mg/m ³	ceiling

Physical Properties:

Vapor Density	> 1	Melting Point or Range	not applicable	
Specific Gravity	1.042	Boiling Point or Range, °F	212.5	
Solubility in Water	complete	Evaporation Rate	< 1	
Vapor pressure, mm Hg	18.1			
Appearance and Odor		Clear liquid, aldehyde odor		
How to detect this substance		Irritation of respiratory tract will occur if inhaled		

Fire and Explosion:

Flash point, °F (give method)	none
Auto ignition temperature, °F	none

Flammable limits in air, volume % none lower (LEL) upper (UEL)

Fire extinguishing materials:

	Water	Х	Foam	Х	CO ₂	Х	Dry Chemical	Х	Other	
Special fire fighting procedures: Wear full protective clothing and respiratory protection										
Unusual fire and explosion hazards: Irritating vapors may be emitted during a fire.										

Health Hazard Information:

Symptoms of overexposure for each potential route of exposure.

Inhaled:	Mist or liquid will cause major irritation of the respiratory tract. Large amounts may cause burning sensations in nose and throat. Possible bleeding from nose may occur, coupled with coughing, chest discomfort and tightness, difficulty in breathing and headache.	
Contact with eyes:	Severe conjunctivis and corneal injury.	
Contact with skin:	Local irritation to severe inflammation.	
Swallowed:	Will cause burning damage to mouth, esophagus, stomach, etc. Get immediate medical attention.	

HEALTH HAZARD 4. Deadly 3. Extreme Hazard 2. Hazardous 1. Slightly Hazardous 0. Normal Material SPECIFIC HAZARD 4. Oxidizer 3. Acid	FIRE HAZARD 4. Below 73 degree F (Boiling pt. below 100 degree F) 3. Below 73 degree F (Boiling pt. atabove 100 degree F and/or atabove 73 degree F not exceeding 100 degree F) 2. Above 100 degree F not exceeding 200 degree F 1. Above 100 degree F 0. Will not burn REACTIVITY 4. May detonate 3. Shock and heat may detonate	Health Hazard Fire Hazard Reactivity Hazard Specific Hazard	

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Other Clothing and equipment

Measures during Maintenance:

Work practices, hygienic practices:

Other Handling and Storage Needs:

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Health Hazard Information (continued):

Heath effects or risks from exposure:

Acute	Will cause irritation to skin, respiratory and gastrointestinal tracts. Severe eye damage can occur.
Chronic	No evidence of adverse effects are available.
First Aid En	nergency Procedures:
Eye Contact	Immediately flush with plenty of water, raising eyelids often to help irrigation and continue for at least 15 minutes. Get medical assistance.
Skin Contact	Flush with plenty of water. Remove contaminated clothing. If skin is sticky, acidity is sill present. Continue flushing until stickiness is gone.
Inhaled	Remove to fresh air. If not breathing give artificial respiration (preferably mouth to mouth). Call a physician or poison control center.
Swallowed	If conscious drink large quantities of water, milk or sodium bicarbonate. Do not induce vomiting. Do not give anything to drink. Get medical attention. Never give anything by mouth to an unconscious person.
Suspected	cancer agent?

X No: this product's ingredients are not found in the lists below.

Federal OSHA National Toxicology Program International Assoc. For Research On Cancer Medical Conditions Aggravated By Exposure Dermatitis, fibroctic lung disease Reactivity Data: Stability: х Stable Unstable Conditions to avoid: Do not mix with strong acids and bases. Incompatibility (materials to avoid): Strong oxidizing agents, strong acids and strong caustic Carbon monoxide and carbon dioxide. Hazardous decomposition products: Hazardous polymerization: May occur Х will not occur Conditions to avoid: Not known Spill, Leak and Disposal Procedures: Dike area to contain the spill. Small spills may be flushed and diluted with lots of water and washed to Spill response procedures: a sewer connected to a waste treatment plant. Larger spills should be contained and neutralized with dilute base before washing with plenty of water Preparing wastes for disposal: to a sewer connected to a waste treatment plant. Any DOT container is suitable for temporarily holding neutralized waste. Special Handling Information: Local exhaust ventilation should be sufficient to minimize employee exposure to mist below Ventilation and Engineering Controls: OSHA PEL When conditions require it, use a respirator approved by NIOSH/MSHA with a dust/mist **Respiratory Protection:** filter. Respiratory protection programs must meet or exceed the requirements of Title 29 CFR 1910.134 Close fitting chemical safety goggles with a face shield if needed. Eye Protection: Nitrile, neoprene or natural rubber. Gloves:

necessary to prevent skin contact.

1910.132 and 1910.133

all above precautions

handling areas.

Rubber boots with safety toes, rubber aprons, plastic hard hats should be used when

Provide emergency eye wash stations and emergency shower facilities near use and

Protective clothing and use of equipment must be in accordance with Title 29 CFR Sections

Chemical feed pumps should be routinely washed out with water. Plastic tubing and fittings should be frequently inspected for leaks and clogs. As with all automatic equipment, be certain that the power is disconnected before performing any adjustments or repairs. Use

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