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 substan	ce	Irritation of respiratory tract will occur if inhaled		

Fire and Explosion:

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

Health Hazard Information:

Symptoms of overexposure for each potential route of exposure.

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 in nose and throat. Possible bleeding from nose may occur, coupled with coughing, chest discomfo							
	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	3
Fire Hazard	1
Reactivity Hazard	1
Specific Hazard	

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 Emergency Procedures:

	iorgeney i recounter							
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.

Madical Canditions Assessed Dy Evapours			Dermetitie fibractic	luna dia	0000
			0,		
	Federal OSHA	National Toxic	ology Program		International Assoc. For Research On Cancer

Medical Conditions Aggravated By Exposure Dermatitis, fibroctic lung

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.
Hazardous decomposition products:	Carbon monoxide and carbon dioxide.

Hazardous polymerization:	May occur	X	will not occur

Conditions to avoid: Not known

Spill. Leak and Disposal Procedures:

Opini, Louis and Liepes	pini mount und mierocouri i recensiere.	
Spill response procedures:	Dike area to contain the spill. Small spills may be flushed and diluted with lots of water and washed to	
	a sewer connected to a waste treatment plant.	
Preparing wastes for disposal:	Larger spills should be contained and neutralized with dilute base before washing with plenty of water	
, ,	to a sewer connected to a waste treatment plant. Any DOT container	
	is suitable for temporarily holding neutralized waste.	

Special Handling Information:

Ventilation and Engineering Controls:	Local exhaust ventilation should be sufficient to minimize employee exposure to mist below
ventilation and Engineering Controls.	OSHA PEL
Respiratory Protection:	When conditions require it, use a respirator approved by NIOSH/MSHA with a dust/mist
	filter. Respiratory protection programs must meet or exceed the requirements of Title 29
	CFR 1910.134
Eye Protection:	Close fitting chemical safety goggles with a face shield if needed.
Gloves:	Nitrile, neoprene or natural rubber.
Other Clothing and equipment	Rubber boots with safety toes, rubber aprons, plastic hard hats should be used when
	necessary to prevent skin contact.
Work practices, hygienic practices:	Protective clothing and use of equipment must be in accordance with Title 29 CFR Sections
70	1910.132 and 1910.133
Other Handling and Storage Needs:	Provide emergency eye wash stations and emergency shower facilities near use and
3	handling areas.
Measures during Maintenance:	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
	all above precautions.