

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

Chemical Control for Industrial Water since 1927

Product Information:

	and the second s
Trade Name (as labeled):	SKASOL 447
Manufacturer's Name	Skasol Incorporated
Address (complete mailing address):	1696 West Grand Avenue
	Oakland, California 94607-1607
Emergency Telephone	(800) 424-9300
Information Telephone	(510) 839-1000
Evening Telephone	(415) 826-1119
Date prepared or revised	August 25, 1995
Name of preparer	David L. Marchman

Hazardous Ingredients:

Chemical Name	CAS Number	Percent	Limits in Air ACGIH TLV	(give units) OSHA PEL	Other (specify)
1-Hydroxyethylidene-1,1-diphosphonic Acid	2809-21-4	<20%	not established		Carrier (opcomy)

Physical Properties:

Vapor Density	not available	Melting Point or Range	not applicable
Specific Gravity		Boiling Point or Range, °F	218
Solubility in Water	complete	Evaporation Rate	not available
Vapor pressure	not available		
Appearance and Odor		Clear yellow liquid, organic odd	or
How to detect this substance		Low pH will cause irritation	

Fire and Explosion: Flash point, °F (give method)

The Pennis Touristies	none
Auto ignition temperature, °F	none

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

Fire extinguishing materials:

Water	Х	Foam	X	CO2	X	Dry Chemical	Х	Other	
Special fire	Special fire fighting procedures:			otective clothi	ng and respir	atory protection			
Unusual fire and explosion hazards: None									

Health Hazard Information:

e for each potential route of exposure.
Mist or liquid will cause major irritation of the respiratory tract. Large amounts will cause burning from acidic
contents
Causes severe burning to eyes. Skin is more resistant, but prolonged exposure can cause irritation.
Not absorbed.
Will cause burning damage to mouth, esophagus, stomach, etc.



- 2. Above 100 degree F r
- 1. Above 100 degree F

Health Hazard	2
Fire Hazard	0
Reactivity Hazard	1
Specific Hazard	3

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Risk Management Washoe County School District



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Health Hazard Information (continued):

Heath effects or risks from exposure:

- 1			
- 1	Acute	-Hydroxyethylidene-1,1-diphosphonic Acid will cause burns with acute exposure	
- 1		Trydroxyethylidene-1,1-diphosphonic Acid will cause burns with a sub-	
- 1	Chronic	ame as south but will be a south will cause burns with acute exposure	
	011101110	ame as acute, but with milder symptoms	

First Aid Emergency Procedures:

		nergency Procedures:
	Eye Contact	Immediately flush with plenty of water, raising eyelids often to help irrigation and continue for at least 15 minutes.
- 1		Get medical assistance.
	Skin Contact	Flush with plenty of water. Remove contaminated clothing. If skin is sticky, acidity is sill present. Continue flushing until
l		stickiness is gone.
	Inhaled	Remove to fresh air. If not breathing give artificial respiration (preferably mouth to mouth). Call a physician or poison control
ŀ		center. Call a physician or poison control
	Swallowed	If conscious drink large quantities of water milk or sodium binaria.
L		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 Not Known

Reactivity Data:

Stability:

X Stable	Unstable
Conditions to avoid: Incompatibility (materials to avoid):	Do not mix with strong bases
Hazardous decomposition products:	Strong bases heat
Hazardous polymerization:	May occur Y Will and
	way occur

May occur	X	will not occur
Conditions to avoid: Not known		

Spill, Leak and Disposal Procedures:

Daniel Control	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 dill.	
	washing with plenty of water to a sewer connected to a waste treatment plant. Any DOT container is suitable for temporarily holding neutralized waste	
	is suitable for temporarily holding neutralized waste.	

Special Handling Information:

Ventilation and Engineering Controls:	Local exhaust ventilation should be sufficient
	Local exhaust ventilation should be sufficient to minimize employee exposure to mist below OSHA PEL
Respiratory Protection:	When conditions require it use a respirator consend by the conditions
	filter. Respiratory protection programs must meet or exceed the requirements of Title 29
Eye Protection:	
Gloves:	Close fitting chemical safety goggles with a face shield if needed. Nitrile, neoprene or natural rubber.
Other Clothing and equipment	Rubber beste of natural rubber.
	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 1910.132 and 1910.133
Other Handling and Storage Needs:	
	Provide emergency eye wash stations and emergency shower facilities near use and 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 page.
	certain that the power is disconnected before performing any adjustments or repairs. Use