

# SAFETY DATA SHEET SKASOL 461

#### **Section 1: Identification**

Product Identifier: SKASOL 461

Recommended Use: Cooling Tower Scale and Corrosion Inhibitor

Manufacturer's Name and Address: SKASOL Incorporated

1696 West Grand Avenue Oakland, CA 94607-1607

Manufacturer's Telephone: (510) 839-1000

24 Hour Emergency Telephone (800) 424-9390

### Section 2: Hazard(s) Identification

Hazard Classification: Corrosive

Signal Word: Warning

GHS Hazard Phrase(s): H302: Harmful if swallowed

H312: Harmful in contact with skin H318: Causes serious eye damage H333: May be harmful if inhaled

GHS Precaution Phrase(s): P262: Do not get in eyes, on skin, or on clothing

P264: Wash...thoroughly after handling

P270: Do not eat, drink or smoke when using this product P281: Use personal protective equipment as required

NFPA Rating

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HEALTH	2	
FIRE	0	
REACTIVITY	0	

### **Section 3: Composition/Information on Ingredients**

Chemical Name	CAS Number	Percent
2-Phosphonobutane-1,2,4-Tricarboxylic Acid (PBTC) Hydroxyphosphono Acetic Acid	37971-36-1 23783-26-8	3% 2%
Proprietary Ingredients Total	20.00 20 0	95% 100%

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.



#### Section 4: First-aid Measures

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. Wash with soap and water

neutralize acidity.

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 or milk. Do not induce vomiting. Get medical

attention. Never give anything by mouth to an unconscious person.

#### **Section 5: Fire-fighting Measures**

#### Fire extinguishing materials:

Water	Х	Foam	Х	CO <sub>2</sub>	Х	Dry	Х	Other	
						Chemical			

Special fire fighting procedures: Wear full protective clothing and respiratory protection.

Unusual fire and explosion hazards: None.

#### **Section 6: Accidental Release Measures**

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 washed with plenty of water to a

sewer connected to a waste treatment plant. Any DOT container is

suitable for temporarily holding neutralized waste.

## **Section 7: Handling and Storage**

Precautions to be taken in handling: Avoid contact. Do not eat or drink near container.

When not in use, drums should be tightly sealed.

Keep drum from freezing.

Avoid storing plastic containers outside in direct sunlight. Prolonged storage in direct sunlight may compromise the quality of the container.



## **Section 8: Exposure Controls / Personal Protection**

Ventilation and Engineering

Controls:

Local exhaust ventilation should be sufficient to minimize employee exposure

to mist below 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: Safety glasses or chemical safety goggles.

Gloves: Nitrile, neoprene or natural rubber.

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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 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

performing any adjustments or repairs. Use all above precautions.

# **Section 9: Physical and Chemical Properties**

Appearance	Yellowish liquid	Upper/lower flammability limits	None
Odor	Organic odor	Vapor pressure	Not available
Odor threshold	Not available	Vapor Density	Not available
рН	1.0 - 3.0	Relative density	1.02 - 1.12
Melting Point or Range	Not applicable	Solubility in Water	Complete
Boiling Point or Range, °F	218	Auto ignition temperature, °F	None
Flash point, °F	none	Viscosity	Not Available
Evaporation Rate	Not available	Flammability	None



## **Section 10: Stability and Reactivity**

Stability	X Stable	Unstable
Hazardous polymerization:	May occur	X Will not occur
Conditions to avoid:		Do not mix with strong bases.
Incompatibility (materials to avo	Strong bases.	
Hazardous decomposition prod	Heat.	

#### **Section 11: Toxicological Information**

Toxicitiy Studies: No toxicity studies have been conducted on this product.

Acute: May cause burns with acute exposure.

Chronic: Same as acute, but with milder symptoms.

Acute oral toxicity

Acute inhalation toxicity

Acute dermal toxicity

Unknown

Unknown

#### **Section 12: Ecological Information**

Avoid release into the environment - harmful to aquatic organisms.

#### **Section 13: Disposal Considerations**

Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

#### **Section 14: Transport Information**

UN Number: UN1760

UN Proper Shipping Name: Corrosive liquids, N.O.S., (contains 2-Phosphonobutane-1,2,4-Tricarboxylic

Acid, Hydroxyphosphono Acetic Acid)

Transport Hazard Class(es) 8

Packing Group II



# **Section 15: Other Regulatory Information**

Unknown

#### **Section 16: Other Information**

Date prepared or revised: May 31, 2015

Name of preparer: Brian Ford

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