



SKASOL 1696 West Grand Avenue, Oakland, CA 94607-1607 Tel (510) 839-1000 - Fax (510) 839-1090 Water Treatment and Energy Management Services Since 1927

SAFETY DATA SHEET SKASOL 460

Section 1: Identification

| Product Identifier: | SKASOL 460 |
|----------------------------------|---|
| 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 clothingP264: Washthoroughly after handlingP270: Do not eat, drink or smoke when using this productP281: Use personal protective equipment as required |
| NFPA Rating | |

| NFPA Rating | |
|-------------|---|
| 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 | <5% <5% |
| Proprietary Ingredients Total | | <u>>90%</u> 100% |

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

Safety Data Sheet - Page 1 of 5 of SKASOL 460



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 | CO2 | Х | Dry Chemical | Х | Other |
|-------------------------------------|---|-------|-------------|--------------|-----------------|-----------------|------------|-------|
| Special fire fighting procedures: | | | Wear full p | protective c | lothing and res | piratory p | rotection. | |
| 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. |



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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. |
| 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 avoi | Strong bases. | |
| Hazardous decomposition produ | Heat. | |

Section 11: Toxicological Information

| Toxicitiy Studies: | No toxicity studies have been conducted on this product. |
|---|--|
| Acute: | 2-Phosphonobutane-1,2,4-Tricarboxylic Acid will cause burns with acute exposure. |
| Chronic: | Same as acute, but with milder symptoms. |
| Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity | Unknown 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 |



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Section 15: Other Regulatory Information

Unknown

Section 16: Other Information

Date prepared or revised:

Name of preparer:

May 31, 2015

Brian Ford

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