

Safety Data Sheet

Solution 5320

SECTION I - IDENTIFICATION



Win Solutions, Inc.

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ChemTel, Inc. :..... (800) 255-3924

Product Number 5320
Product Name Solution 5320
Chemical Family Cooling Tower Treatment
CAS Number 1310-58-3
Date Prepared 7/22/2015
Revision Number
Recommended Use Industrial Use Only

SECTION II - HAZARDOUS IDENTIFICATION

GHS CLASSIFICATION:

Classification

| | |
|----------------------------|------------|
| Corrosive to Metals | Category 1 |
| Aspiration Hazard | Category 2 |
| Skin Corrosion/Irritation | Category 3 |
| Sensitization, Respiratory | Category 1 |

DANGER!

GHS LABEL:



Hazard Statements

| | |
|------|---|
| H290 | May be corrosive to metals |
| H305 | May be fatal if swallowed and enters airways |
| H316 | Causes mild skin irritation |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled |

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Precautionary Statements

| | |
|----------|--|
| P234 | Keep only in original packaging |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P284 | Wear respiratory protection. |
| P301+310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P304+340 | IF INHALED: Remove victim to fresh air and keep comfortable for breathing. |
| P331 | Do NOT induce vomiting. |
| P332+313 | If skin irritation occurs: get medical advice/attention. |
| P342+311 | If experiencing respiratory symptoms Call a POISON CENTER or doctor/physician. |
| p390 | Absorb spillage to prevent material damage. |
| P405 | Store locked up. |
| P406 | Store in a corrosive resistant/... container with a resistant inner liner. |
| P501 | Dispose of contents/container to... |

SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

The precise composition of this product is proprietary information. In the event of a medical emergency, a complete disclosure will be provided to medical personnel.

| Component Name | CAS # | Component% | OSHA PEL | ACGIH TLV |
|---------------------|-----------|------------|-------------------------------|-------------------------------|
| Caustic Potash, 45% | 1310-58-3 | < 10% | 2 mg/m ³ , Ceiling | 2 mg/m ³ , Ceiling |

SECTION IV - FIRST AID MEASURES

Contact with eyes: Flush with water for 15 minutes. Seek immediate medical attention.

Skin contact: Wash exposed areas with water and mild soap. Remove contaminated clothing immediately and launder before reuse. If irritations persist, seek immediate medical attention.

Inhalation: Remove victim to fresh air. Administer oxygen or artificial respiration if breathing is affected or stopped. Seek immediate medical attention.

Ingestion: If swallowed. Do not induce vomiting. Seek immediate medical attention. Give large quantities of water. Never give anything by mouth to an unconscious person.

SECTION V - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water fog, foam, CO₂, dry chemical.

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Special Fire Fighting Procedures Use self-contained breathing apparatus and full bunker gear in fire areas. Evacuate all unprotected personnel from area. Keep containers cool with water fog to minimize swelling taking care not to spread flames with water used for cooling.

Unusual Fire Fighting Hazards:

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Evacuate all unprotected personnel from the area.

Environmental Precautions: Contain spill if it can be done with minimal risk. Prevent liquid from entering drains, sewers or waterways. Notify proper authorities.

Methods for Cleaning Up: Take up with absorbent material and place in containers for later disposal.

SECTION VII - HANDLING AND STORAGE

Handling and Storage:

- Avoid prolonged breathing of mist or vapor. Wash thoroughly after handling.
- Store out of direct sunlight and in a cool, well-ventilated area.
- Aluminum equipment should not be used in the storage and/or transfer. Contact with aluminum parts in a pressurizable fluid system may cause violent reactions.
- Wash thoroughly after handling.
- Avoid contact with eyes.

SECTION VIII - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:

| Component Name | CAS # | OSHA PEL | ACGIH TLV |
|---------------------|-----------|-------------------------------|-------------------------------|
| Caustic Potash, 45% | 1310-58-3 | 2 mg/m ³ , Ceiling | 2 mg/m ³ , Ceiling |

Engineering Controls: Adequate local or mechanical to reduce vapor or mist to below the PEL or TLV.

Monitoring: Wash hands prior to eating, drinking or using the restroom. Have eye wash stations and safety showers readily available. Any clothing or shoes which became contaminated with the product should be removed immediately and thoroughly laundered before wearing again. Follow accepted work practices for handling a corrosive material.

Personal Protective Equipment (PPE)

Eye Protection: Goggles or approved OSHA device with side shields; do not wear contact lenses when handling this product.

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Skin Protection: Impervious apron and work boots recommend where splashing may occur.

Respiratory Protection: Use the proper respirator in areas where the chemical exposure is unknown or above the OSHA PEL or ACGIH TLV.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

| | |
|----------------------------------|--------------------|
| Appearance | Clear Amber Liquid |
| Odor | Light Sweet Odor |
| pH@25°C | <12 |
| Melting/Freezing Point | <32°F Freezing |
| Flashpoint | N/A |
| Specific Gravity | 1.12 |
| Solubility | Complete |
| Auto-Ignition Temperature | None |
| Decomposition Temperature | N/A |
| VOC Content | N/A |
| Odor Threshold | N/A |
| Boiling Range | 212°F |
| Evaporation Point | N/A |
| Flammable Limits - Upper | N/A |
| Flammable Limits - Lower | N/A |
| Vapor Pressure | N/A |
| Vapor Density (Air=1) | N/A |
| Viscosity | N/A |

SECTION X - STABILITY AND REACTIVITY

Stability: Stable, under normal conditions of storage and handling.

Conditions to Avoid: Strong oxidizing agents
Acids.
Keep from freezing.

Hazardous Decomposition/Byproducts: None known

Hazardous Polymerization: Will not occur.

Polymerization Conditions to Avoid: None

Incompatibilities: Strong acids and oxidizers

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SECTION XI - TOXICOLOGICAL INFORMATION

Likely Route of Exposure: Contact and inhalation; ingestion possible.

Inhalation: May cause irritation to the upper respiratory tract and CNS depression. Breathing spray or mists can be harmful. Can cause damage to nasal and respiratory passages.

Eye Contact: Causes eye irritation including stinging, watering and redness which may result in corneal injury. Prolonged contact can result in chemical burns and permanent tissue damage.

Skin Contact: Contact may cause mild skin irritation including redness, burning and drying/cracking of the skin. Repeated contact can lead to skin sensitization.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Toxicity:

| Component Name | LD50 | LC50 |
|---------------------|------------------------|-----------------|
| Caustic Potash, 45% | Oral - Rat - 333 mg/kg | Not Established |

| Reproductive Effects | Teratogenicity | Mutagenicity | Embryotoxicity | Sensitization to Product | Synergistic Products |
|----------------------|----------------|----------------|----------------|--------------------------|----------------------|
| Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |

SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicity: Information not available.

Mobility: Information not available.

Degradability: Information not available.

BioAccumulation: Information not available.

SECTION XIII - WASTE DISPOSAL CONSIDERATIONS

Observe and follow all federal, state and local regulations.

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SECTION XIV - TRANSPORT INFORMATION

DOT SHIPPING INFORMATION

Proper Shipping Name: Compound, Cleaning, Liquid

Contains: Potassium Hydroxide

Hazard Class and Label: 8, Corrosive

Identification Number: UN1760

Packaging Group: III

Other Shipping Info:

SECTION XV - REGULATORY INFORMATION

TSCA STATUS:..... The components of this product are listed on the TSCA Inventory

SARA TITLE III SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCE:

No chemicals in this material are subject to the reporting requirements.

SARA TITLE III SECTION 311/312 HAZARD CATEGORIZATION:

| Acute | Chronic | Fire | Pressure | Reactive |
|-------|---------|------|----------|----------|
| N/A | N/A | N/A | N/A | X |

SARA TITLE III SECTION 313 SUPPLIER INFORMATION:

| Component Name | CAS # | % by wt. |
|----------------|-----------|----------|
| | 1310-58-3 | < 10% |

CERCLA SECTION 102(a) HAZARDOUS SUBSTANCE:

| Component Name | CAS # | % by wt. | RQ (lbs.) |
|---------------------|-----------|----------|-----------|
| Potassium Hydroxide | 1310-58-3 | < 10% | 1,000 |

CALIFORNIA PROPOSITION 65:

No chemicals in this material are subject to the reporting requirements.

SECTION XVI - OTHER INFORMATION

HMIS Health: 1

HMIS Flammability: 0

HMIS Reactivity: 1

Additional: The information contained in this SDS has been prepared based upon data believed to be reliable, an evaluation of the ingredients in the product, their concentration in the product and potential interactions. The information is offered in good faith and is believed to be reliable and reflects our best professional judgement. Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information

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contained herein and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequence of its use. It is furnished to our customer who is urged to study it carefully to become aware of hazards, if any, in the storage, handling, use and disposal of the product; and to insure his/her employee's are properly informed and advised of all safety precautions required. Use or dissemination of all or part of this information for any other purpose is prohibited by law.

