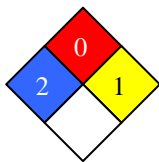


Solution 5320

(Cooling Tower Water Treatment)



MATERIAL SAFETY DATA SHEET

Health:	2
Flammability:	0
Reactivity:	1
Personal Protection:	C

SECTION 1

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Win Solutions, Inc.
109 Pine Street
Lexa, AR 72355

Telephone Number: (800) 489-0470
Fax Number: (870) 572-9696

EMERGENCY TELEPHONE NUMBERS

Win Solutions. (800) 489-0470 Normal Business Hours
CHEM-TEL (800) 255-3924 After Business Hours

PRODUCT NAME: **Solution 5320**
CHEMICAL NAME: N/A
TRADE NAMES / SYNONYMS: N/A
CHEMICAL FAMILY: Water Treatment

DATE CREATED: 2/23/00
DATE LAST REVISED: 03/15/11

SECTION 2

COMPOSITION, INFORMATION ON INGREDIENTS

A. Hazardous Ingredients:

Potassium Hydroxide - Liquid
(CAS # 1310-58-3)

Percentage

≤ 10

Exposure Limits

OSHA PEL 2 mg/m³
ACGIH TLV 2 mg/m³

B. Other Ingredients:

Water, polymers, copolymers,

Percentage

Balance

Exposure Limits

None Established

C. Proprietary Trade Secret:

Each proprietary trade secret material listed above in Section 2 A is either:

- (1) Held a trade secret from Win Solutions, Inc.,
- (2) Below 0.1% if potential carcinogenic,
- (3) OSHA non-hazardous material or less than 1.0% if OSHA hazardous material.

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SECTION 3

HAZARDS IDENTIFICATION

***** **EMERGENCY OVERVIEW** *****

CAUTION: Avoid contact with eyes, skin and clothing. May cause some slight eye irritation. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse. Prolonged or repeated liquid contact may dry and defat the skin leading to dermatitis.

POTENTIAL HEALTH EFFECTS:

EYES:

SHORT TERM EFFECTS: Test on similar materials suggests contact may cause severe damage including burns of the eye. Product is irritating and corrosive to eyes.

INGESTION:

SHORT TERM EFFECTS: Test on similar materials suggests severe burns and complete tissue perforation of mucous membranes of the mouth, throat and stomach. Do not induce vomiting. Get medical attention promptly.

INHALATION:

SHORT TERM EFFECTS: Test on similar materials suggests exposure to mist, vapor, or liquid can produce burns of the respiratory tract. Severe exposures could result in chemical pneumonia. Remove exposed person to fresh air.

SKIN:

SHORT TERM EFFECTS: Test on similar materials suggests prolonged or repeated contact, even to dilute concentrations, can cause a high degree of tissue destruction. Product is irritating and corrosive to skin. Flush skin with lots of water, wash using soap.

ADDITIONAL DATA:

None Known

PRIMARY ROUTE(S) OF ENTRY

Skin, Inhalation, Ingestion and Eyes.

CARCINOGEN STATUS:

OSHA:	No
NTP:	No
IARC:	No
ACGIH:	No

This product does not require a cancer hazard warning in accordance with the OSHA Hazard Communication Standard.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Personnel with pre-existing skin or respiratory tract disorders should avoid contact with this product.

SECTION 4

FIRST AID MEASURES

EYES:

Flush eyes immediately with water for a minimum of 15 minutes occasionally lifting lower and upper lids. Get medical attention promptly.

INGESTION:

Drink several glasses of water to dilute. Do Not induce vomiting except at the instruction of a physician. Never give anything by mouth to an unconscious person.

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INHALATION:

Not likely to occur except as a mist. Remove patients to fresh air and consult a physician. If breathing is difficult, give oxygen. If not breathing give artificial respiration.

SKIN:

Wash skin thoroughly with soap and water. Immediately remove contaminated clothing and launder before reuse. If irritation or rash develops, obtain medical assistance.

NOTE TO PHYSICIAN:

Not Applicable for this product.

SECTION 5

FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT:	NONE
AUTO IGNITION:	NONE
FLAMMABILITY CLASS (OSHA):	N/A
LOWER EXPLOSIVE LIMIT (%):	NONE
UPPER EXPLOSIVE LIMIT (%):	NONE

FIRE AND EXPLOSION HAZARDS:

NONE

EXTINGUISHING MEDIA:

Any media suitable for the surrounding fire.
(1996 Emergency Response Guidebook, RSPA P 5800.6)

FIRE FIGHTING INSTRUCTIONS:

Use water spray only to cool containers exposed to flame. Do not enter enclosed or a confined work space without proper protective equipment. Fire fighting personnel should wear respiratory protection (positive pressure if available).

HAZARDOUS PRODUCTS OF COMBUSTION:

Fumes, smoke and carbon monoxide.

SECTION 6

ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL SPILL:

General: Shut off all ignition sources; no flares, smoking or flames in hazard area. Use personal protective equipment.

For small spills; Take up with sand or other absorbent material and place into containers for later disposal.

For large spills; Keep unnecessary people away; isolate hazard area and deny entry. Dike far ahead of spill.

Contain spill from entering waterways or sewers. Absorb material with sawdust or other absorbent material and dispose of in an approved landfill. Advise EPA, state agencies if required.

REPORTABLE QUANTITY (RQ): 1000 pounds Potassium Hydroxide

The Superfund Amendments and Reauthorization Act (SARA) Section 304 requires that a release equal to or greater than the reportable quantity for this substance be immediately reported to the local emergency planning committee and the state emergency response commission (40 CFR 355.40). If the release of this substance is reportable under CERCLA Section 103, the National Response Center must be notified immediately at (800) 424-8802 or (202) 426-2675 in the metropolitan Washington, DC. area (40 CFR 302.6)

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SECTION 7

HANDLING AND STORAGE

HANDLING AND STORAGE:

Observe all federal, state and local regulations when storing this substance.

BONDING AND GROUNDING:

Not Applicable with this product.

SENSITIVITY TO (SHOCK) IMPACT:

Not Applicable with this product.

HANDLING AND STORAGE PRECAUTIONS:

Store in a cool dry area. Keep containers tightly closed when not in use. Never use a torch to cut or weld on or near container. Empty containers can contain explosive vapors. Store away from incompatible substances. Wash thoroughly after handling.

WORK / HYGIENIC PRACTICES:

Wash hands with soap and water before eating, drinking, smoking or use of toilet facilities. Take a shower after work if general contact occurs. Remove soaked clothing and launder before reuse. Launder contaminated shoes and leather gloves.

SECTION 8

EXPOSURE CONTROLS, PERSONAL PROTECTION

ENGINEERING CONTROLS:

Use adequate ventilation to keep mists of this material below applicable standard(s). See Section on occupational exposure limits.

EYE / FACE PROTECTION:

Safety glasses, splash goggles or face shield as appropriate. Have suitable eye water wash available.

SKIN PROTECTION:

Avoid prolonged and / or repeated skin contact. If prolonged contact cannot be avoided, wear protective impervious gloves and clothing. Acceptable materials for gloves are neoprene; nitrile; viton.

VENTILATION:

Not Applicable with this product.

RESPIRATORY PROTECTION:

Normally not required if adequate ventilation is in place.

OTHER / GENERAL PROTECTION:

If there is a likelihood of splashing, splash resistant clothing should be worn. Never wear soaked clothing. Launder or dry clean before wearing. Discard oil soaked shoes. Affix warning labels on containers in accordance with 29 CFR 1910.1200 (Hazard Communication Standard)

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & DESCRIPTION:

Slight Amber

ODOR:

Slight

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BASIC PHYSICAL PROPERTIES:

PHYSICAL STATE:	Liquid
FLASH POINT:	NONE
AUTO IGNITION:	NONE
VAPOR PRESSURE:	Not Determined
VAPOR DENSITY:	Greater than air = 1
SPECIFIC GRAVITY:	1.10 -4.12 Water = 1.0
WATER SOLUBILITY:	Complete
PERCENT VOLATILES:	Not Determined
pH:	>13
VISCOSITY:	Not Determined

SECTION 10

STABILITY AND REACTIVITY

STABILITY AND REACTIVITY:

Stable under normal conditions, temperatures and pressures.

CONDITIONS TO AVOID:

Incompatible Materials

INCOMPATIBLE MATERIALS:

Strong oxidizers and strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal combustion may produce oxides of carbon and nitrogen if heat of fire, and other asphyxiants evaporate water.

HAZARDOUS POLYMERIZATION:

Hazardous polymerization has not been reported to occur under normal conditions. Temperatures and pressures.

SECTION 11

TOXICOLOGICAL INFORMATION

IRRITATION DATA:

TOXICITY DATA:

EYE EFFECTS

CHRONIC EXPOSURE:
None Known

SKIN EFFECTS

CHRONIC EXPOSURE:
None Known

ORAL (INGESTION) EFFECTS

CHRONIC EXPOSURE:
None Known

INHALATION EFFECTS

CHRONIC EXPOSURE:
None Known

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SYSTEMIC (ORGAN) EFFECTS DATA:

Does Not contain component(s) which causes systemic effects in studies.

TERATOLOGY (BIRTH DEFECTS) DATA:

Does Not contain component(s) which causes birth defects in studies.

CARCINOGENIC EFFECTS

This product or any of the ingredients in this product is not listed or a potential carcinogen by the National Toxicology Program, by the I.A.R.C. monographs or by OSHA

SECTION 12

ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT RATING (0-4):

No data available

ACUTE AQUATIC TOXICITY:

No data available

LOG BIOCENTRATION FACTOR (BCF):

No data available

LOG OCTANOL / WATER PARTITION COEFFICIENT:

No data available

SECTION 13

DISPOSAL CONSIDERATIONS

Observe and follow all federal, state, and local regulations. If "used" RCRA criteria must be determined. Flush to drain or storm sewer. Contract to authorized disposal service. If permitted incineration may be practical. Consider recycling.

SECTION 14

TRANSPORTATION INFORMATION

U.S DOT SHIPPING NAME:

Compounds Cleaning Liquid Corrosive
(Contains Potassium Hydroxide)

U.S. DOT HAZARD CLASS:

8

U.S. DOT IDENTIFICATION NUMBER:

UN 1760

U.S. DOT PACKING GROUP NUMBER:

II

U.S. DOT EMERGENCY GUIDE NUMBER:

154

U.S. DOT LABELING REQUIREMENTS:

Corrosive

This product is not regulated by DOT 49 CFR 172.101

SECTION 15

REGULATORY INFORMATION

U.S. FEDERAL REGULATORY INFORMATION:

SARA 302 (40CFR 355.3) Threshold Planning Quantity: Not Applicable

SARA 304 (40CFR 355.40) Reportable Quantity: Not Applicable

SARA 311 (40CFR 370.21) Categories:

Immediate (Acute) Health Effects: Yes

Delayed (Chronic) Health Effects: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactivity Hazard: Yes

SARA 313 (40CFR 372) Supplier Information:

No chemicals in this product exceed the De Minimus reporting level established by SARA Title III, Section 313 and 40CFR 372

OSHA (29CFR 1910.119) Process Safety: No

EPA Hazard Classification Code: Not Applicable

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EPA / TSCA Inventory:

No

All components of this product that are required to be on the EPA / TSCA inventory are listed on the Inventory.

TSCA SECTION 103 (b) EXPORT NOTIFICATION:

Not Applicable

(CERLA) SECTION 103 (40CFR302.4) Comprehensive

No

Environmental Response, Compensation and Liability Act):

RQ: 1000 pounds Potassium Hydroxide

SECTION 16

OTHER INFORMATION

NEPA HAZARD RATING:

HEALTH: 2 Moderate **FIRE:** 0 Minimal **REACTIVITY:** 1 Slight

SPECIFIC HAZARD: None

HAZARDOUS MATERIALS IDENTIFICATION LABELING (HMIS):

HEALTH: 2 Moderate **FIRE:** 0 Minimal **REACTIVITY:** 1 Slight

PERSONAL PROTECTION: C

The information contained in this Material Safety Data Sheet 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 judgment. 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 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. Each individual should make a determination as to the suitability of the information for his / her particular purpose(s). 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 employees are properly informed and advised of all safety precautions required. The information is furnished for compliance with the "Occupational Safety and Health Act" of 1970, the "Hazards Communication Act" of 1983 as well as various other Federal, State and Local regulations. Law prohibits use or dissemination of all or part of this information for any other purpose.