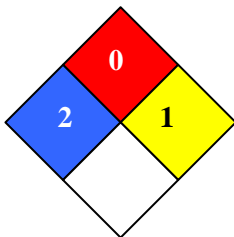


WinKlean 2317NS

(Spray Wash Alkaline Cleaner)



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:

WinKlean 2317NS

DATE CREATED: 02/25/99

CHEMICAL NAME:

N/A

DATE LAST REVISED: 03/15/11

TRADE NAMES / SYNONYMS:

N/A

CHEMICAL FAMILY:

Spray Wash Alkaline Cleaning Compound

SECTION 2

COMPOSITION, INFORMATION ON INGREDIENTS

A. Hazardous Ingredients:

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

Percentage

≤ 30

Exposure Limits

OSHA PEL 2 mg/m³
ACGIH TLV 2 mg

B. Other Ingredients:

Mixture of sequestrates, coupling agents
surfactants, and water

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** *****

WARNING: May cause burns to the eyes, skin, and mucous membranes. May cause permanent eye damage. Inhalation of mist or spray can cause severe lung damage. Can react violently with water, acids and other substances. Wash thoroughly after handling. Remove contaminated clothing and laundry before reuse.

POTENTIAL HEALTH EFFECTS:

EYES:

SHORT TERM EFFECTS: Test on similar materials suggest contact may cause severe damage including burns of the eye.

INGESTION:

SHORT TERM EFFECTS: Test on similar materials suggest severe burns and complete tissue perforation of mucous membranes of the mouth, throat and stomach.

INHALATION:

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

SKIN:

SHORT TERM EFFECTS: Test on similar materials suggest prolonged or repeated contact, even to dilute concentrations, can cause a high degree of tissue destruction. NOTE irritation may follow an initial latency (delay between the time that the exposure occurs and when the sense of irritation starts). The latent period can vary as much as hours for a dilute solution (0.04%) to minutes with more concentrate solutions (75 - 100%)

ADDITIONAL DATA:

None Known

PRIMARY ROUTE(S) OF ENTRY

Skin, Inhalation, Ingestion and Eyes

CHRONIC INFORMATION:

Prolonged and/or repeated contact with this material may produce skin, eye and respiratory tract damage.

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 a directed stream of water for a minimum of 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within several seconds is essential to achieve maximum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY.

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INGESTION:

Never give anything by mouth to an unconscious person. Drink several glasses of water or acidic beverage (Tomato or orange juice, carbonated soft drinks). **DO NOT** induce vomiting except at the instruction of a physician. If vomiting occurs spontaneously, keep airway clear and give more water. **GET MEDICAL ATTENTION IMMEDIATELY**

INHALATION:

Remove patient to fresh air and consult a physician. If breathing is difficult, give oxygen. If not breathing give artificial respiration. **GET MEDICAL ATTENTION IMMEDIATELY**

SKIN:

Wash skin thoroughly with soap and cool water. Immediately remove contaminated clothing and launder before reuse. Discard non-rubber shoes. **GET MEDICAL ATTENTION AS SOON AS POSSIBLE.**

NOTE TO PHYSICIAN:

No specialized procedures. Treat symptomatically and for clinical symptoms.

SECTION 5

FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT:	None Flammable
AUTO IGNITION:	None Flammable
FLAMMABILITY CLASS (OSHA):	None Flammable
LOWER EXPLOSIVE LIMIT (%):	None Flammable
UPPER EXPLOSIVE LIMIT (%):	None Flammable

FIRE AND EXPLOSION HAZARDS:

Direct contact with water can cause a violent exothermic reaction

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. **AVOID** getting water into containers. 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: This product may react violently with acids and water. **NEVER FLUSH TO SEWER**

For small spills; Take up with vacuum equipment. Neutralize remaining traces with inorganic acid (hydrochloric, sulfuric, or acetic acid). Flush spill area with water followed by a liberal covering of sodium carbonate. All clean up mater should be removed for proper treatment or disposal. Spills on other than pavement (e.g. dirt or sand) may be handled by removing the affected soil and placing in approved 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 by an approved method. Advise EPA, state agencies if required.

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REPORTABLE QUANTITY (RQ): 1000 Pounds Potassium Hydroxide
1000 Pounds Sodium 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)

SECTION 7

HANDLING AND STORAGE

HANDLING AND STORAGE:

Avoid breathing vapors, mist or material. Do not get in eyes, on skin, or clothing. Wear personal protective equipment as described. Keep away from acids, to avoid possible violent reaction. Observe all federal, state and local regulations when storing this substance.

SPECIAL MIXING AND HANDLING PRECAUTIONS:

Considerable heat is generated when product is mixed with water. Therefore, when making solutions always carefully follow these steps: ALWAYS wear ALL protective clothing described in SECTION 8. NEVER add water to product. ALWAYS add product, with constant stirring, slowly to surface of lukewarm (80 - 100^O F) water, to assure product is being completely mixed as it is added. Product can react EXPLOSIVELY with acids, aldehydes, and many other chemicals, add product VERY gradually, while stirring constantly.

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. Containers, even those that have been emptied, will retain product residue and vapor and should be handled as if they were full.

WORK / HYGIENIC PRACTICES:

ALWAYS wear ALL protective clothing described in SECTION 8. Wash hands with soap and water before eating, drinking, smoking or use of toilet facilities. Remove soaked clothing and laundry before reuse. Laundry 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. Have safety eye wash and shower stations in area of chemical use. Supply proper personal protective equipment.

EYE / FACE PROTECTION:

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

SKIN PROTECTION:

Avoid skin contact. Wear protective impervious aprons, gloves, and arm shields. Acceptable materials for aprons, gloves and arm shields are: rubber; neoprene; or vinyl

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VENTILATION:

Supply adequate ventilation to keep levels below standards.

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:

Clear Amber

ODOR:

Light Caustic Odor.

BASIC PHYSICAL PROPERTIES:

PHYSICAL STATE:	Liquid
FLASH POINT:	Non - flammable
AUTO IGNITION:	Non - flammable
SPECIFIC GRAVITY:	1.19 Water = 1.0
WATER SOLUBILITY:	Complete
PERCENT VOLATILE:	Not Determined
pH:	≤14 undiluted

SECTION 10

STABILITY AND REACTIVITY

STABILITY AND REACTIVITY:

Stable under normal conditions, temperatures and pressures.

CONDITIONS TO AVOID:

Incompatible Materials

INCOMPATIBLE MATERIALS:

Organic materials and concentrated acids, magnesium, aluminum, zinc (galvanized), tin, chromium, brass and bronze, and various food sugar.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal combustion may produce oxides of carbon and nitrogen if water is evaporated by heat of fire, and other asphyxiants. Reaction with various food sugars may form carbon monoxide.

HAZARDOUS POLYMERIZATION:

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

SECTION 11

TOXICOLOGICAL INFORMATION

IRRITATION DATA:

TOXICITY DATA:

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EYE EFFECTS

CHRONIC EXPOSURE:
Not Determined

SKIN EFFECTS

CHRONIC EXPOSURE:
Not Determined

ORAL (INGESTION) EFFECTS

CHRONIC EXPOSURE:
Not Determined

INHALATION EFFECTS

CHRONIC EXPOSURE:
Not Determined

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 small amounts to a drain or sanitary 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, Alkaline

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 (Potassium Hydroxide)

This product is regulated by DOT

49 CFR 172.101

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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:	Yes
	Fire Hazard:	No
	Sudden Release of Pressure Hazard:	No
	Reactivity Hazard:	Yes (Slight)
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	
EPA Hazard Classification Code:		Not Applicable
EPA / TSCA Inventory:		No
	The components of this product are not listed on the EPA / TSCA inventory of chemicals.	
TSCA SECTION 103 (b) EXPORT NOTIFICATION:		Not Applicable
(CERLA) SECTION 103 (40CFR302.4) Comprehensive Environmental Response, Compensation and Liability Act):		RQ: 1000 Pounds Potassium Hydroxide 1000 Pounds Sodium Hydroxide

SECTION 16

OTHER INFORMATION

NFPA HAZARD RATING:

HEALTH: 2 Serious **FIRE:** 0 Minimal **REACTIVITY:** 1 Slight **HAZARD:** None

HAZARDOUS MATERIALS IDENTIFICATION LABELING (HMIS):

HEALTH: 2 Serious **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 purpose 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. Use or dissemination of all or part of this information for any other purpose is prohibited by law.