

**MATERIAL SAFETY DATA SHEET:AQUA-SOL 20/20 INDUSTRY**

DATE OF ISSUE: 09/18/2003

SUPERCEDES: 07/12/2000

**SECTION I - GENERAL INFORMATION****Chemical Name & Synonyms:**

N/A

**Trade Name & Synonyms:**

AQUA-SOL 20/20 INDUSTRY

**Chemical Family:**

AQUEOUS ALKALINE GLYCOL ETHER MIXTURE

Formula Mixture: X

**Manufacturer's Name:**

CERTIFIED LABS, DIV. OF NCH CORP.

**Address:**

BOX 152170

IRVING, TEXAS 75015

**Prepared By:**

L Boynton/Chemist

**Product Code Number**

0237

**Emergency Phone Number**

800-424-9300

**SECTION II - HAZARDOUS INGREDIENTS**

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name (Ingredients)	Hazard	TLV	PEL	STEL	CAS #
SODIUM METASILICATE	IRRITANT	N/E 1.	N/E 2.	N/E	10213-79-3
TRIPROPYLENE GLYCOL MONOMETHYL ETHER	IRRITANT	N/E 1.	N/E 2.	N/E	25498-49-1
POLYETHYLENE GLYCOL TRIMETHYLNONYL ETHER	IRRITANT	N/E 1.	N/E 2.	N/E	60828-78-6

**SECTION III - PHYSICAL DATA**

Boiling Point (f):	210°	Specific Gravity (H20=1):	1.05
Vapor Pressure (MM HG):	16.34	Color:	YELLOW-GREEN
Vapor Density (Air=1):	0.6	Odor:	MILD
PH @ 100% :	12-12.4	Clarity	TRANSPARENT
% Volatile by Volume:	95	Evaporation Rate (BU A/C=1):	0.53
H2O Solubility:	COMPLETE	Viscosity:	NON-VISCOUS

**SECTION IV - FIRE AND EXPLOSION HAZARD**

Flash Point:	Flammable Limits:	LEL:	UEL:
NON-FLAM / SETAFLASH	HYDROGEN GAS	4%	75%

**Extinguishing Media:**

Foam:X Alcohol Foam:X CO2:X Dry Chemical:X Water Spray:X Other:

**Special Fire Fighting Procedures:**

FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. EXTINGUISHING MEDIA SHOULD BE CHOSEN BASED ON THE NATURE OF THE SURROUNDING FIRE. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY TO PREVENT BURSTING. USE CARE AS SPILLS MAY BE SLIPPERY.

**Unusual Fire and Explosion Hazards:**

PROLONGED CONTACT WITH REACTIVE METALS, SUCH AS ALUMINUM, BRASS, BRONZE, CHROMIUM, MAGNESIUM, TIN, ZINC, AND ALLOYS, CAN CAUSE THE FORMATION OF FLAMMABLE HYDROGEN GAS WHICH CAN FORM AN EXPLOSIVE MIXTURE WITH AIR.

**NFPA Hazard Rating: (0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)**

Health:2 Flammability:1 Instability:0 Special:

**SECTION V - HEALTH HAZARD DATA****Threshold Limit Value:**

NOT ESTABLISHED.

**Effects of Overexposure:**

**-Acute(Short Term Exposure)**

EYE CONTACT: CAUSES SEVERE IRRITATION SEEN AS TEARING, SWELLING, STINGING, REDNESS, EXCESSIVE BLINKING, AND A BURNING SENSATION. MAY CAUSE BLINDNESS AND CORNEAL DAMAGE. SKIN CONTACT: CAUSES SEVERE IRRITATION SEEN AS REDNESS, ITCHING, AND BURNS. PRODUCT CAN BE ABSORBED THROUGH THE SKIN IN HARMFUL AMOUNTS. INHALATION: MAY CAUSE RESPIRATORY IRRITATION SEEN AS COUGHING AND SNEEZING. INGESTION: MAY CAUSE IRRITATION WITH POSSIBLE DIZZINESS, DROWSINESS, WEAKNESS, THIRST, NAUSEA, VOMITING, AND DIARRHEA. MAY CAUSE A BURNING SENSATION IN THE MOUTH, THROAT, ESOPHAGUS, AND STOMACH.

**-Chronic (Long Term Exposure)**

MAY CAUSE KIDNEY DAMAGE. PROLONGED SKIN CONTACT MAY CAUSE SWELLING AND TISSUE DESTRUCTION. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING URETHRA, KIDNEY, BLOOD, AND BLADDER DISEASES; RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, AND DERMATITIS. TARGET ORGANS: KIDNEYS AND BLADDER. THE PRIMARY ROUTES OF EXPOSURE ARE SKIN AND EYE CONTACT.

**Primary Routes of Entry:** Inhalation: Ingestion: Absorption:X

**Emergency and First Aid Procedures:****-Inhalation:**

REMOVE FROM THE AREA TO FRESH AIR. SEEK MEDICAL ATTENTION IF RESPIRATORY IRRITATION DEVELOPS OR IF BREATHING BECOMES DIFFICULT.

**-Eye Contact:**

IMMEDIATELY RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING FOR AT LEAST 15 MINUTES. HOLD THE EYELIDS APART TO ENSURE RINSING OF THE ENTIRE SURFACE OF THE EYES AND LIDS WITH WATER. GET IMMEDIATE MEDICAL ATTENTION.

**-Skin Contact:**

WASH AFFECTED AREAS WITH LARGE AMOUNTS OF SOAP AND WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. GET IMMEDIATE MEDICAL ATTENTION. WASH CLOTHING AND CLEAN SHOES BEFORE REUSE.

**-Ingestion:**

GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. SEEK MEDICAL ATTENTION IF DISCOMFORT OCCURS.

**-Notes to Physician:**

THERE IS NO SPECIFIC ANTIDOTE. TREAT THE PATIENT SYMPTOMATICALLY.

**SECTION VI - TOXICITY INFORMATION****Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:**

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

SCAQMD INFORMATION. VAPOR PRESSURE OF THE VOC COMPONENT: 0.03 MMHG @ 20°C. THE VOC COMPONENT IS NOT PHOTCHEMICALLY REACTIVE.

VOC CONTENT: 3.8% BY WEIGHT; 4.1% BY VOLUME; 39.9 G/L

**SODIUM METASILICATE**

ORL-RAT LD50: 847 MG/KG 3.

**TRIPROPYLENE GLYCOL MONOMETHYL ETHER**

ORL-RAT LD50: 3200 MG/KG 3.

**POLYETHYLENE GLYCOL TRIMETHYLNONYL ETHER**

ORL-RAT LD50: 5.65 ML/KG 4.

SKN-RBT LD50: 4.78 ML/KG/24H 4.

SKN-RBT 24H UNCOVERED: NO IRRITATION 4.

EYE-RBT: 0.005 ML; SEVERE INJURY 4.

EYE-RBT: 0.1 ML; 10% SOLUTION IN WATER; SEVERE INJURY 4.

IN STUDIES WITH RABBITS SUSTAINED OCCLUDED SKIN CONTACT OF THE UNDILUTED SURFACTANT CAN CAUSE INFLAMMATORY CHANGES IN THE LUNG. 4.

**SECTION VII - REACTIVITY DATA**

**Stability:**

Stable:X

Unstable:

Conditions to Avoid: NONE KNOWN.

**Incompatibility (Materials to Avoid):**

STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE; ACIDS, AMMONIUM SALTS, HYDROXYL COMPOUNDS, OXYGEN, AND REDUCING SUGARS. CAN ETCH GLASS. PROLONGED CONTACT WITH REACTIVE METALS, SUCH AS ALUMINUM, BRASS, BRONZE, CHROMIUM, MAGNESIUM, TIN, ZINC, AND ALLOYS, CAN CAUSE THE FORMATION OF FLAMMABLE HYDROGEN GAS WHICH CAN FORM AN EXPLOSIVE MIXTURE WITH AIR.

**Hazardous Decomposition Products:**

OXIDES OF CARBON AND HYDROGEN GAS.

**Hazardous Polymerization:**

May Occur:

Will Not Occur:X

Conditions to Avoid: N/A

**SECTION VIII - SPILL OR LEAK PROCEDURES**

**Steps to be Taken if Material is Released or Spilled:**

WEAR APPROPRIATE PROTECTIVE CLOTHING. USE CARE AS SPILLS MAY BE SLIPPERY. DIKE AND CONTAIN SPILL. ABSORB WITH AN INERT MATERIAL AND TRANSFER ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. PREVENT PRODUCT FROM CONTAMINATING SOIL OR FROM ENTERING SEWAGE AND DRAINAGE SYSTEMS AND BODIES OF WATER. FLUSH AREA WITH WATER.

**Waste Disposal Method(s):**

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

**Neutralizing Agent:**

USE DILUTE ACIDS SUCH AS HYDROCHLORIC ACID OR VINEGAR. ADD CAUTIOUSLY WHILE MIXING. WEAR APPROPRIATE PROTECTIVE CLOTHING.

**SECTION IX - SPECIAL PROTECTION INFORMATION**

**Required Ventilation:**

LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN GENERATE EXCESSIVE LEVELS OF VAPORS OR MISTS. LOCAL VENTILATION IS PREFERRED, BECAUSE IT PREVENTS DISPERSION INTO WORK AREAS BY CONTROLLING IT AT ITS SOURCE.

**Respiratory Protection:**

RESPIRATORS SHOULD BE SELECTED BY AND USED UNDER THE DIRECTION OF A TRAINED HEALTH AND SAFETY PROFESSIONAL FOLLOWING REQUIREMENTS FOUND IN OSHA'S RESPIRATOR STANDARD (29 CFR 1910.134) AND ANSI'S STANDARD FOR RESPIRATORY PROTECTION (Z88.2-1992). FOR CONCENTRATIONS ABOVE THE TLV AND/OR PEL BUT LESS THAN 10 TIMES THESE LIMITS, A NIOSH APPROVED HALF-FACEPIECE RESPIRATOR EQUIPPED WITH APPROPRIATE CHEMICAL CARTRIDGES MAY BE USED. FOR CONCENTRATIONS GREATER THAN 10 TIMES THE TLV AND/OR PEL, CONSULT THE NIOSH RESPIRATOR DECISION LOGIC FOUND IN PUBLICATION NO. 87-116 OR ANSI Z88.2-1992.

**Glove Protection:**

NEOPRENE OR NITRILE RUBBER GLOVES SHOULD BE WORN WHEN HANDLING. ENSURE COMPLIANCE WITH OSHA'S PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD FOR HAND PROTECTION, 29 CFR 1910.138.

**Eye Protection:**

CHEMICAL GOGGLES SHOULD BE WORN WHEN HANDLING. ENSURE COMPLIANCE WITH OSHA'S PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD FOR EYE AND FACE PROTECTION, 29 CFR 1910.133.

**Other Protection:**

A SAFETY SHOWER AND AN EYEWASH STATION SHOULD BE AVAILABLE. WEAR PROTECTIVE CLOTHING WHEN HANDLING.

**SECTION X - STORAGE AND HANDLING INFORMATION**

**Storage Temperature:**

Indoors:X

Outdoors:

Heated:

Refrigerated:

Minimum Temperature:35°F

Maximum Temperature:120°F

**Precautions to be taken in Handling and Storing:**

ALWAYS STORE MATERIAL IN ITS ORIGINAL CONTAINER. KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP FROM FREEZING. IF PRODUCT FREEZES ALLOW IT TO SLOWLY WARM TO ROOM TEMPERATURE AND STIR THOROUGHLY BEFORE USING. EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUES WHICH MAY EXHIBIT THE HAZARDS OF THE PRODUCT.

**Other Precautions:**

KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT. FOLLOW THE LABEL DIRECTIONS.

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#### SECTION XI - REGULATORY INFORMATION

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Upper % Limit</b>
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Those Ingredients listed above are subject to the reporting requirements of 313 of Title III& of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

PLEASE CALL 1-800-527-9919 FOR ADDITIONAL INFORMATION IF YOU ARE A CALIFORNIA CUSTOMER.  
THIS MSDS IS NOT INTENDED FOR USERS IN THE STATE OF CALIFORNIA

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#### SECTION XII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2003.

2. OSHA PEL.

3. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFOWeb, 2003.

4. VENDOR'S MSDS.

ALL THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE TOXIC SUBSTANCES CONTROL ACT (TSCA) AND ARE EITHER LISTED ON THE TSCA INVENTORY OR OTHERWISE EXEMPTED FROM LISTING.

-----IRR:IRRITANT, FLAM/FLAMM:FLAMMABLE,  
COMB:COMBUSTIBLE, CORR:CORROSIVE CARC:CARCINOGENIC, TOX:TOXIC, N/A:NOT APPLICABLE, N/E:NOT ESTABLISHED, COC:CLEVELAND OPEN CUP, PMCC:PENSKY-MARTIN CLOSED CUP, TCC:TAGLIABUE CLOSED CUP,

LEL:LOWER EXPLOSION LIMIT, UEL:UPPER EXPLOSION LIMIT, NFPA:NATIONAL FIRE PROTECTION ASSOCIATION, IARC:INTERNATIONAL AGENCY FOR THE RESEARCH ON CANCER, NTP:NATIONAL TOXICOLOGY PROGRAM, OSHA:OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION, ACGIH:AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, TLV:THRESHOLD LIMIT VALUE, PEL:PERMISSIBLE EXPOSURE LIMIT, STEL:SHORT-TERM EXPOSURE LIMIT, MLD:MILD, MOD:MODERATE, SEV:SEVERE, MUT:MUTAGENIC, ASPHYX:ASPHYXIAN, PNO:PARTICLES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SDT:STANDARD DRAIZE TEST, ORL:ORAL, IHL:INHALATION, HMN:HUMAN

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE IN LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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