

(006525-0176 -U0122745-0237 ) DATE OF ISSUE 11/11/92 SUPERSEDES 10/09/92

SECTION I - GENERAL INFORMATION

CHEMICAL NAME & SYNONYMS N/A TRADE NAME & SYNONYMS AQUA-SOL 20/20 INDUSTRY  
 CHEMICAL FAMILY ALKALINE DETERGENT FORMULA X--MIXTURE  
 MANUFACTURERS NAME: CERTIFIED LABS, DIV. OF NCH CORP.  
 ADDRESS (NUMBER, STREET, CITY, STATE & ZIP CODE) BOX 152170 IRVING, TEXAS 75015  
 PREPARED BY: K WOODY/CHEMIST PRODUCT CODE NUMBER 0237 EMERGENCY TELEPHONE NUMBER 214-438-1381

SECTION II- HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS.

CHEMICAL NAME (INGREDIENTS) : SODIUM METASILICATE  
 HAZARD--->SKIN IRR. TLV--->2MG/M3 1. PEL-->2MG/M3 1.  
 STEL(TWA)\* ->NOT EST. CAS#-->6834-92-0  
 CHEMICAL NAME (INGREDIENTS) : TRIPROPYLENE GLYCOLMONOMETHYL ETHER  
 HAZARD--->EYE IRR. TLV--->NOT EST.2 PEL-->NOT EST.3  
 STEL(TWA)\* ->NOT EST. CAS#-->20324-33-8  
 CHEMICAL NAME (INGREDIENTS) : 2,6,8-TRIMETHYL-4-NONYLOXYPOLY OXYETHANOL  
 HAZARD--->EYE IRR. TLV--->NOT EST.2 PEL-->NOT EST.3  
 STEL(TWA)\* ->NOT EST. CAS#-->60828-78-6

AQUA-SOL 20/20 INDUSTRY

SECTION IIA - NON-HAZARDOUS INGREDIENTS PAGE : 02

NON-HAZARDOUS INGREDIENT NAMES AND CAS NUMBERS ARE PROTECTED UNDER NJ TRADE SECRET REGISTRY # 409363-5004P

SECTION III - PHYSICAL DATA

BOILING PT. (FAHRENHEIT) 210 SPEC GRAVITY (H2O=1) 1.050  
 VAPOR PRESSURE (MM HG) 17 COLOR YELLOW-GREEN  
 VAPOR DENSITY (AIR=1) 6 ODDR LOW  
 PH @ 100% 12.2 CLARITY TRANSPARENT  
 PERCENT VOLATILE BY VOLUME (%) 95 EVAPORATION RATE (BU AC = 1 ) 0.10  
 SOLUBILITY IN WATER COMPLETE  
 VISCOSITY NON-VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (METHOD USED) NON-FLAMM/A FLAMMABLE LIMITS N/A LEL N/A UEL N/A  
 EXTINGUISHING MEDIA "ALCOHOL" X--FOAM DRY X--CHEMICAL WATER X--SPRAY  
 SPECIAL FIRE FIGHTING PROCEDURES WEAR NIOSH/MSHA APPROVED RESPIRATOR WHEN FIGHTING FIRES IN CONFINED AREAS TO PREVENT EXPOSURE TO ACRID SMOKE AND HAZARDOUS DECOMPOSITION PRODUCTS.

UNUSUAL FIRE & EXPLOSION HAZARDS NONE KNOWN

NFPA HAZARD RATING (0=INSIGNIFICANT;1=SLIGHT;2=MODERATE;3=HIGH;4=EXTREME):  
 1 --HEALTH 1 --FLAMMABILITY 0 --REACTIVITY --SPECIAL

## THRESHOLD LIMIT VALUE :

NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

## EFFECTS OF OVEREXPOSURE

- ACUTE - (SHORT TERM EXPOSURE)  
ACUTE EXPOSURE FROM THIS ALKALINE MIXTURE RESULTS IN REDDENING OF THE SKIN, MODERATE IRRITATION & POSSIBLE DISCOMFORT. IRRITATING BY INHALING SPRAY, MIST TO UPPER RESPIRATORY TRACT OR OTHER MUCOUS MEMBRANE AREAS. EYE CONTACT PRODUCES TEARING, IRRITATION & DISCOMFORT. ACCIDENTAL INGESTION CAUSES NAUSEA, DIARRHEA AND IRRITATION OF INTESTINAL LINING.

- CHRONIC - (LONG TERM EXPOSURE)  
LONG-TERM MISUSE RESULTING FROM AIRBORNE CONCENTRATIONS OF MIST OR SPRAY MAY CAUSE DAMAGE TO UPPER RESPIRATORY TRACT. CHRONIC EFFECTS MAY RESULT IN SUPERFICIAL DESTRUCTION OF TISSUE AND DERMATITIS. THERE ARE NO KNOWN CHRONIC EFFECTS TO THE EYES OTHER THAN THE EXTENSION OF THE ACUTE EFFECTS. PERSONS WITH AGGRAVATED SKIN CONDITIONS OR RESPIRATORY TRACT DISEASE MAY BE NEGATIVELY AFFECTED BY THE USE OF THIS PRODUCT. AS AN INGREDIENT MAY BE ABSORBED THROUGH THE SKIN, REPEATED LONG TERM EXPOSURE CAN CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION AND KIDNEY EFFECTS.

PRIMARY ROUTE OF ENTRY: &lt;-- INHALATION &lt;-- INGESTION &lt;-- ABSORPTION

## EMERGENCY &amp; FIRST AID PROCEDURES

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

EYE CONTACT :  
IMMEDIATELY RINSE EYES WITH WATER. REMOVE ANY CONTACT LENSES, AND CONTINUE FLUSHING EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES. HOLD 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 PLENTY OF WATER, AND SOAP IF AVAILABLE, FOR SEVERAL MINUTES. REMOVE AND CLEAN CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.

INGESTION :  
GIVE 3-4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION TO DETERMINE WHETHER EVACUATION OF STOMACH IS NECESSARY. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

NOTES TO PHYSICIAN :  
SODIUM METASILICATE: GASTRIC LAVAGE IS INDICATED.

## SECTION VI - TOXICITY INFORMATION

PRODUCT CONTAINS CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY:

IARC	<--YES	NTP	<--YES	OSHA	<--YES	ACGIH	<--YES	OTHER	<--YES
	X<--NO		X<--NO		X<--NO		X<--NO		X<--NO

## AQUA-SOL 20/20 INDUSTRY

(CONTINUED)

## SECTION VI - TOXICITY INFORMATION

PAGE : 04

SODIUM METASILICATE: ORL-RAT LD50: 1280 MG/KG 3.  
SKN-RBT 250MG/24H SEV 3.  
TRIPROPYLENE GLYCOL MONOMETHYL ETHER  
ORL-RAT LD50: 3300MG/KG 4.  
ORL-DOG LD50: 5000MG/KG 4.  
2,6,8-TRIMETHYL-4-NONYLOXYPOLY OXYETHANOL  
ORL-RAT LD50: 5650MG/KG 4.

## SECTION VII - REACTIVITY DATA

STABILITY	X<--STABLE	<--UNSTABLE	CONDITIONS TO AVOID
	N/A		

INCOMPATIBILITY (MATERIALS TO AVOID)  
MAY ETCH GLASS OR ANODIZED ALUMINUM IF PRODUCT IS HOT, THE SURFACE IS HOT OR THE PRODUCT IS NOT RINSED OR PROPERLY DILUTED.

HAZARDOUS DECOMPOSITION PRODUCTS  
OXIDES OF CARBON, NITROGEN, SILICA

HAZARDOUS	X	WILL NOT OCCUR	MAY OCCUR	CONDITIONS TO AVOID
POLYMERIZATION	N/A			

## SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
SMALL SPILL: FLUSH SURFACE WITH LARGE AMOUNTS OF WATER & FLUSH DOWN DRAIN.  
LARGE SPILL: STOP LEAK. CONTAIN SPILL. REMOVE BY WET VACUUM OR ABSORBANT.  
REUSE SPILLED MATERIAL IF POSSIBLE. OTHERWISE, PLACE IN CLOSED LABELED CONTAINER AND STORE IN SAFE PLACE FLUSHING REMAINING RESIDUE TO DRAIN.

WASTE DISPOSAL METHOD  
DISPOSE OF IN ACCORDANCE WITH STATE, FEDERAL & LOCAL REGULATIONS CONCERNING HEALTH POLLUTION.

## NEUTRALIZING AGENT

DILUTE (10%) HCL OR FLUSH WITH LARGE AMOUNTS OF WATER.

## SECTION IX - SPECIAL PROTECTION INFORMATION

## REQUIRED VENTILATION

GOOD INDUSTRIAL HYGIENE PRACTICE DICTATES THAT THE WORK AREAS SHOULD PROVIDE ADEQUATE VENTILATION OR CONTROLS TO MAINTAIN AND MEET OSHA REQUIREMENTS.

## RESPIRATORY PROTECTION

WITH NORMAL USE, NO RESPIRATOR IS REQUIRED. IN AN EMERGENCY SITUATION THE FOLLOWING RESPIRATOR SELECTION IS SUGGESTED.

100MG/M3: HIEPF/SAF/SCBAF  
200MG/M3: PAPHIEF/SAF/PD/PP/CF  
ESCAPE DMXSF/SCBAF

## PROTECTIVE GLOVES

NEOPRENE RUBBER GLOVES

## EYE PROTECTION

SAFETY GLASSES WITH SIDE SHIELDS OR SAFETY GOGGLES

## OTHER PROTECTION

PROTECTIVE CLOTHING

## SECTION X - STORAGE AND HANDLING INFORMATION

## STORAGE TEMPERATURE

120 F. <--MAX 32 F <--MIN X INDOOR HEATED REFRIGERATED OUTDOOR

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING  
IF POSSIBLE STORE AT MODERATE TEMPERATURES. HIGHER OR LOWER STORAGE TEMPERATURES SHOULD NOT HARM THE PRODUCTS EFFECTIVNESS BUT HEAT MAY CAUSE INCREASED AGRESSIVENSS ON GLASS OR ALUMINUM. IF PRODUCT FREEZES, WARM TO ROOM TEMPERATURE AND STIR THO-ROUGHLY.

## OTHER PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.  
READ ENTIRE LABEL BEFORE USING.

## SECTION XI - REGULATORY INFORMATION

## CHEMICAL NAME

## C.A.S. NUMBER

## UPPER % LIMIT

N/A

THOSE INGREDIENTS LISTED ABOVE ARE SUBJECT TO THE REPORTING REQUIREMENTS OF

## AQUA-SOL 20/20 INDUSTRY

(CONTINUED)

## SECTION XI - REGULATORY INFORMATION

PAGE : 06

313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

IF UE (USE EXEMPTION) APPEARS UNDER UPPER % LIMIT, END USERS ARE EXEMPT FROM NOTIFICATION BECAUSE THE PRODUCT IS USED AND LABELED FOR ROUTINE JANITORIAL WORK, OR THE PRODUCT IS USED AND LABELED FOR FACILITY GROUNDS MAINTENANCE (SUCH AS FERTILIZERS AND HERBICIDES), OR THE PRODUCT IS USED AND LABELED FOR MAINTAINING MOTOR VEHICLES.

## CALIFORNIA PROPOSITION 65

WARNING: THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE (1) CANCER OR (2) BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM:  
NONE

## SECTION XII - TRANSPORTATION \* (FOR FUTURE USE)

## APPLICABLE REGULATIONS

<--49 CFR <--IMCO <--TARIFF 6 D <--IATA <--MILITARY AIR (AFR 71-4)

## SHIPPING NAME

## HAZARD CLASS

ID NUMBER REPORT QTY

## LABELS

LIMITED QTY

## UNIT CONTAINER

## DOT SPS CONTAINER

NET EXPLOSIVE WT.

## AEROSOL PROPELLANT(S)

## SECTION XIII - REFERENCES

1. VENDOR'S MSDS.
2. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 1991-1992.
3. OSHA PEL
4. DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, 7TH EDITION, N. IRVING SAX AND RICHARD J. LEWIS, SR.

\*SHORT TERM EXPOSURE LIMIT (TWA) LISTED AS FINAL RULE LIMITS PUBLISHED IN THE FEDERAL REGISTER/VOL.54 NO.12, 1-19-89

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MANUFACTURERS NAME: CERTIFIED LABS, DIV. OF NCH CORP.  
ADDRESS (NUMBER, STREET, CITY, STATE & ZIP CODE)  
BOX 152170  
IRVING, TEXAS 75015  
PREPARED BY: K WOODY/CHEMIST PRODUCT CODE NUMBER 0237 EMERGENCY TELEPHONE NUMBER 214-438-1381

## SECTION II- HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS.

CHEMICAL NAME (INGREDIENTS) :  
SODIUM METASILICATE  
HAZARD-->SKIN IRR. TLV--->2MG/M3 1. PEL-->2MG/M3 1.  
STEL(TWA)\* ->NOT EST. CAS#-->6834-92-0  
CHEMICAL NAME (INGREDIENTS) :  
TRIPROPYLENE GLYCOLMONOMETHYL ETHER  
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## AQUA-SOL 20/20 INDUSTRY

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VAPOR DENSITY (AIR=1) 6 ODOR LOW  
PH @ 100% 12.2 CLARITY TRANSPARENT  
PERCENT VOLATILE BY VOLUME (%) 95 EVAPORATION RATE (BU AC = 1) 0.10  
SOLUBILITY IN WATER COMPLETE  
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FLASH POINT (METHOD USED) NON-FLAMN/A FLAMMABLE LIMITS N/A LEL N/A UEL N/A  
EXTINGUISHING MEDIA "ALCOHOL" <--FOAM X<--CO2 X<--CHEMICAL X<--WATER SPRAY <--OTHER  
SPECIAL FIRE FIGHTING PROCEDURES  
WEAR NIOSH/MSHA APPROVED RESPIRATOR WHEN FIGHTING FIRES IN CONFINED AREAS  
TO PREVENT EXPOSURE TO ACRID SMOKE AND HAZARDOUS DECOMPOSITION PRODUCTS.

UNUSUAL FIRE & EXPLOSION HAZARDS  
NONE KNOWN

NIHHA HAZARD RATING (0=INSIGNIFICANT;1=SLIGHT;2=MODERATE;3=HIGH;4=EXTREME):  
1 <--HEALTH 1 <--FLAMMABILITY 0 <--REACTIVITY <--SPECIAL



## THRESHOLD LIMIT VALUE :

NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

## EFFECTS OF OVEREXPOSURE

- ACUTE - (SHORT TERM EXPOSURE)  
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PRIMARY ROUTE OF ENTRY: &lt;-- INHALATION &lt;-- INGESTION &lt;-- ABSORPTION

## EMERGENCY &amp; FIRST AID PROCEDURES

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

EYE CONTACT:  
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NOTES TO PHYSICIAN:  
SODIUM METASILICATE: GASTRIC LAVAGE IS INDICATED.

## SECTION VI - TOXICITY INFORMATION

PRODUCT CONTAINS CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN BY:

IARC	<--YES	NTP	<--YES	OSHA	<--YES	ACGIH	<--YES	OTHER	<--YES
	X<--NO		X<--NO		X<--NO		X<--NO		X<--NO

## AQUA-SOL 20/20 INDUSTRY

(CONTINUED)

## SECTION VI - TOXICITY INFORMATION

PAGE : 04

SODIUM METASILICATE: ORL-RAT LD50: 1280 MG/KG 3.  
SKN-RBT 250MG/24H SEV 3.  
TRIPROPYLENE GLYCOL MONOMETHYL ETHER  
ORL-RAT LD50: 3300MG/KG 4.  
ORL-DG LD50: 5000MG/KG 4.  
2,6,8-TRIMETHYL-4-NONYLOXYPOLY OXYETHANOL  
ORL-RAT LD50: 5650MG/KG 4.

## SECTION VII - REACTIVITY DATA

STABILITY	X<--STABLE	<--UNSTABLE	CONDITIONS TO AVOID
	N/A		

INCOMPATIBILITY (MATERIALS TO AVOID)  
MAY ETCH GLASS OR ANODIZED ALUMINUM IF PRODUCT IS HOT, THE SURFACE IS HOT OR THE PRODUCT IS NOT RINSED OR PROPERLY DILUTED.

HAZARDOUS DECOMPOSITION PRODUCTS  
OXIDES OF CARBON, NITROGEN, SILICA

HAZARDOUS	X	WILL NOT OCCUR	MAY OCCUR	CONDITIONS TO AVOID
POLYMERIZATION	N/A			

## SECTION VIII - SPILL OR LEAK PROCEDURES

STEPS TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
SMALL SPILL: FLUSH SURFACE WITH LARGE AMOUNTS OF WATER & FLUSH DOWN DRAIN.  
LARGE SPILL: STOP LEAK. CONTAIN SPILL. REMOVE BY WET VACUUM OR ABSORBANT.  
REUSE SPILLED MATERIAL IF POSSIBLE. OTHERWISE, PLACE IN CLOSED LABELED CONTAINER AND STORE IN SAFE PLACE FLUSHING REMAINING RESIDUE TO DRAIN.

WASTE DISPOSAL METHOD  
DISPOSE OF IN ACCORDANCE WITH STATE, FEDERAL & LOCAL REGULATIONS CONCERNING HEALTH POLLUTION.

NEUTRALIZING AGENT

DILUTE (10%) HCL OR FLUSH WITH LARGE AMOUNTS OF WATER.

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ESCAPE DMXSF/SCBAF

PROTECTIVE GLOVES  
NEOPRENE RUBBER GLOVES

EYE PROTECTION  
SAFETY GLASSES WITH SIDE SHIELDS OR SAFETY GOGGLES

OTHER PROTECTION  
PROTECTIVE CLOTHING

## SECTION X - STORAGE AND HANDLING INFORMATION

STORAGE TEMPERATURE	INDOOR	HEATED	REFRIGERATED	OUTDOOR
120 F. <--MAX 32 F. <--MIN	X			

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING  
IF POSSIBLE STORE AT MODERATE TEMPERATURES. HIGHER  
OR LOWER STORAGE TEMPERATURES SHOULD NOT HARM THE  
PRODUCTS EFFECTIVENESS BUT HEAT MAY CAUSE INCREASED  
AGGRESSIVENESS ON GLASS OR ALUMINUM. IF PRODUCT  
FREEZES, WARM TO ROOM TEMPERATURE AND STIR THO-  
ROUGHLY.

OTHER PRECAUTIONS  
KEEP OUT OF REACH OF CHILDREN.  
READ ENTIRE LABEL BEFORE USING.

## SECTION XI - REGULATORY INFORMATION

CHEMICAL NAME	C.A.S. NUMBER	UPPER % LIMIT
N/A		

THOSE INGREDIENTS LISTED ABOVE ARE SUBJECT TO THE REPORTING REQUIREMENTS OF

## AQUA-SOL 20/20 INDUSTRY

(CONTINUED)

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PAGE : 06

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CALIFORNIA PROPOSITION 65  
WARNING: THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) KNOWN TO THE STATE OF  
CALIFORNIA TO CAUSE (1) CANCER OR (2) BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM:  
NONE

## SECTION XII - TRANSPORTATION \* (FOR FUTURE USE)

APPLICABLE REGULATIONS	<--TARIFF 6 D	<--IATA	<--MILITARY AIR (AFR 71-4)
<--49 CFR <--IMCO			

SHIPPING NAME

HAZARD CLASS	ID NUMBER	REPORT QTY

LABELS	LIMITED QTY

UNIT CONTAINER

DOT SPS CONTAINER	NET EXPLOSIVE WT.

AEROSOL PROPELLANT(S)

## SECTION XIII - REFERENCES

1. VENDOR'S MSDS
2. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND  
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