

**MATERIAL SAFETY DATA SHEET: SHINY-SIDE****Section I - General Information**

(000000-000000- - 0505)

**Date of Issue:**

10/4/2007 12:00:00 AM

**Supersedes:**

3/9/2006 12:00:00 AM

**Chemical Name & Synonyms:**

N/A

**Trade Name & Synonyms:**

SHINY-SIDE

**Chemical Family:**

AQUEOUS ALKALINE SOLUTION

**Formula is a mixture:** [âˆš]**Manufacturer Name:**

CHEMSEARCH DIV. OF NCH CORP.

**Manufacturer Address:**BOX 152170  
IRVING, TX 75015**Prepared By:**

M MCDOWELL/CHEMIST

**Product Code Number:**

0505

**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 HYDROXIDE

CORROSIVE N/E 1 2 MG/M3 2 2 MG/M3 \$1 1310-73-2

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE IRRITANT

N/E 1 N/E 2

N/E

64-02-8

\$ AS CEILING LIMIT

**Section IIa - Non-Hazardous Ingredients**

(NON-HAZARDOUS INGREDIENT NAMES AND CAS NUMBERS ARE PROTECTED UNDER NJ TRADE)

**Secret Registry #:** 409363 - 5067P**Section III - Physical Data****Boiling Point (Â°F):** 212Â°**Specific Gravity (H<sub>2</sub>O=1):** 1.175**Vapor Pressure (mm Hg):** 14.52**Color:** RED**Vapor Density (Air=1):** 0.7**Odor:** ODORLESS**pH @ 100% :** 13.3**Clarity:** TRANSPARENT**% Volatile by Volume:** 95**Evaporation Rate (BuAc=1):** 0.6**H<sub>2</sub>O Solubility:** COMPLETE**Viscosity:** NON-VISCOUS

## Section IV - Fire and Explosion Hazard

Flash Point: &gt;200Å°F

Method Used: SETAFLASH

Flammable Limits: HYDROGEN GAS

UEL: 75%

LEL: 4%

Aerosol Level (NFPA 30B): N/A

**Extinguishing Media:**

Foam       Alcohol Foam     CO2  
 Dry Chemical     Water Spray     Other

**NFPA 704 Hazard Rating:**

4-Extreme	Health: 3
3-High	Flammability: 1
2-Moderate	Instability: 1
1-Slight	Special:
0-Insignificant	

**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.

**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. THE USE OF WATER SPRAY (FOG) WHILE EFFECTIVE, MAY CAUSE FROTHING AND FOAMING. NEVER USE A WATER JET AS THIS WILL JUST SPREAD THE FIRE. USE CARE AS SPILLS MAY BE SLIPPERY.

## Section V - Health and Hazard Data

**Threshold Limit Value:**

NOT ESTABLISHED.

**Effects of Overexposure:****Acute: (Short Term Exposure)**

EYE CONTACT: CORROSIVE. CAUSES BURNS, CORNEAL DAMAGE, AND POSSIBLE BLINDNESS. SKIN CONTACT: CORROSIVE. CAUSES BURNS, AND POSSIBLE DEEP ULCERATIONS OR SCARRING THAT ARE NOT IMMEDIATELY NOTICED OR PAINFUL. TEMPORARY HAIR LOSS MAY OCCUR AT BURN SITE. THE SEVERITY OF THESE EFFECTS DEPEND ON CONCENTRATION AND HOW SOON AFTER EXPOSURE THE AREA IS WASHED. INHALATION: CAUSES BURNS TO THE RESPIRATORY TRACT, NOSE, MOUTH, AND THROAT WITH DISCOMFORT, NASAL DISCHARGE, SNEEZING, COUGHING, RAPID HEARTBEAT, AND CHEST PAIN. INHALATION OF MIST MAY CAUSE CHEMICAL PNEUMONITIS WHICH CAN CAUSE DAMAGE AND MAY BE FATAL. INGESTION: CORROSIVE. CAUSES BURNS TO THE MOUTH, THROAT, ESOPHAGUS, AND STOMACH WITH NAUSEA AND PAIN. SYMPTOMS MAY INCLUDE VOMITING OF BLOOD. BLOOD LOSS THROUGH DAMAGED TISSUE CAN LEAD TO LOW BLOOD PRESSURE, SHOCK, AND MAY BE FATAL.

**Chronic: (Long Term Exposure)**

MAY CAUSE BRONCHOPNEUMONIA, CHEMICAL PNEUMONITIS, PULMONARY EDEMA, AND DELAYED SCARRING OF THE AIRWAY AND OTHER AFFECTED ORGANS. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, AND DERMATITIS. TARGET ORGANS: NONE KNOWN. THERE IS NO PRIMARY ROUTE OF ENTRY INTO THE BODY. THE PRIMARY ROUTES OF EXPOSURE ARE SKIN AND EYE CONTACT.

**Primary Routes of Entry** Inhalation Ingestion Absorption**Emergency First Aid Procedures:****Inhalation:**

REMOVE FROM THE AREA TO FRESH AIR. IF NOT BREATHING, CLEAR THE AIRWAY AND START MOUTH TO MOUTH ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION.

**Eye Contact:**

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

**Skin Contact:**

IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND SHOES. FLUSH AFFECTED AREAS WITH LARGE AMOUNTS OF WATER FOR 20 TO 30 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. DISCARD CLOTHING AND SHOES.

**Ingestion:**

GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. GET IMMEDIATE MEDICAL ATTENTION. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

**Notes to Physician:**

PROBABLE MUCOSAL DAMAGE MAY CONTRAINDICATE THE USE OF GASTRIC LAVAGE. DEPENDING ON THE AMOUNT INGESTED AND RETAINED AS WELL AS THE TOXICITY OF THE PRODUCT, GASTRIC LAVAGE SHOULD BE CONSIDERED. KEEP PATIENT'S HEAD BELOW HIPS TO PREVENT PULMONARY ASPIRATION. IF COMATOSE, A CUFFED ENDOTRACHEAL TUBE WILL PREVENT ASPIRATION.

## Section VI - Toxicity Information

**Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:**

IARC                       NTP                       OSHA                       ACGIH                       Other

VOC CONTENT: 0% BY WEIGHT; 0% BY VOLUME; 0 G/L

**SODIUM HYDROXIDE**

ORL-RAT LD50: 104-340 MG/KG 4.

ORL-RBT LDLo: 500 MG/KG 3.

SKN-RBT TCLo: 25 PPH 3.

SKN-RBT SDT: 500 MG/24H SEVERE 3.

EYE-RBT SDT: 1 MG/24H SEVERE 3.

**TETRASODIUM ETHYLENE DIAMINETETRAACETATE**

SKN-RBT SDT: 500 MG/24H MODERATE 3.

EYE-RBT SDT: 100 MG/24H MODERATE 3.

ORL-RAT LD50: 10 MG/KG 3.

EDTA AND ITS SODIUM SALTS HAVE BEEN REPORTED TO CAUSE BIRTH DEFECTS IN LABORATORY ANIMALS ONLY AT EXAGGERATED DOSES THAT WERE TOXIC TO THE MOTHER. THESE EFFECTS ARE LIKELY ASSOCIATED WITH ZINC DEFICIENCY DUE TO CHELATION. EXPOSURES HAVING NO EFFECT ON THE MOTHER SHOULD HAVE NO EFFECT ON THE FETUS. 4.

## Section VII - Reactivity Data

**Stability**

Stable                       Unstable

**Conditions to Avoid:**

NONE KNOWN.

**Hazardous Polymerization**

Will not occur                       May occur

**Conditions to Avoid:**

N/A

**Incompatibility (Materials to Avoid):**

STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE; ACETALDEHYDE, ACIDS, ACROLEIN, CHLORINATED OR FLUORINATED HYDROCARBONS, CHLORINE TRIFLUORIDE, HYDROQUINONE, GLYCOLS, LEATHER, MALEIC ANHYDRIDE, ORGANIC HALOGEN OR NITRO COMPOUNDS, PHOSPHOROUS PENTOXIDE, REDUCING SUGARS, TETRAHYDROFURAN, AND WOOL. 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, NITROGEN, AND SULFUR; AMMONIA AND SODIUM COMPOUNDS.

## 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. SHUT OFF SOURCE OF LEAK. 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 MISTS OR VAPORS. 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. ENSURE COMPLIANCE WITH OSHA'S PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD FOR HAND PROTECTION, 29 CFR 1910.138.

### Eye Protection:

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

### Other Protection:

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

## Section X - Storage and Handling Information

### Storage Temperature

Max: 120Å°F

Min: 35Å°F

### Storage Conditions

[] Indoors [  ] Outdoors [  ] Heated [  ] Refrigerated

### Precautions to be Taken in Handling and Storing:

ALWAYS STORE MATERIAL IN ITS ORIGINAL CONTAINER. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. DO NOT STORE IN UNLINED METAL CONTAINERS. KEEP FROM FREEZING. IF PRODUCT FREEZES ALLOW IT TO SLOWLY WARM TO ROOM TEMPERATURE AND STIR THOROUGHLY BEFORE USING.

### Other Precautions:

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

## Section XI - Regulatory Information

### Chemical Name CAS Number Upper % Limit

None.

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.

## Section XII - References

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2005. 2. OSHA PEL. 3. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFOWeb, 2006. 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:ASPHYXIANT, PNOS:PARTICLES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SDT:STANDARD DRAIZE TEST, ORL:ORAL, IHL:INHALATION, HMN:HUMAN

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