

AUG 1 2 2002

MATERIAL SAFETY DATA SHEET:STRONG ARM

DATE OF ISSUE: 05/22/2000

SUPERCEDES: 04/16/1999

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

N/A

Trade Name & Synonyms:

STRONG ARM

Chemical Family:

CAUSTIC/ GLYCOL BLEND

Formula Mixture: X

Manufacturer's Name:

CHEMSEARCH DIV. OF NCH CORP.

Address:

BOX 152170

IRVING, TX 75015

Prepared By:

R STOLLEY/CHEMIST

Product Code Number

0298

Emergency Phone Number

800-424-9300

SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

<u>Chemical Name (Ingredients)</u>	<u>Hazard</u>	<u>TLV</u>	<u>PEL</u>	<u>STEL</u>	<u>CAS #</u>
POTASSIUM HYDROXIDE	CORROSIVE	2 MG/M3\$ 1	NOT EST. 2	NOT EST.	1310-58-3
PROPYLENE GLYCOL	IRRITANT	NOT EST. 1	NOT EST. 2	NOT EST.	57-55-6
\$ ACGIH CEILING LIMIT					

SECTION III - PHYSICAL DATA")%>

Boiling Point (f):	150	Specific Gravity (H2O=1):	1.16
Vapor Pressure (MM HG):	18	Color:	OFF-WHITE
Vapor Density (Air=1):	<1	Odor:	LOW
PH @ 100% :	13.3	Clarity	OPAQUE
% Volatile by Volume:	81	Evaporation Rate (BU A/C=1):	0.1
H2O Solubility:	COMPLETE	Viscosity:	VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point:	Flammable Limits:	LEL:	UEL:
NON-FLAM /	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.

Unusual Fire and Explosion Hazards:

PROLONGED CONTACT WITH REACTIVE METALS, SUCH AS ALUMINUM, ZINC, MAGNESIUM AND COPPER, 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:**

2 MG/M3 AS POTASSIUM HYDROXIDE (CEILING LIMIT) 1.

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. INHALATION: WHEN HEATED, VAPORS MAY CAUSE BURNS TO THE RESPIRATORY TRACT, NOSE AND THROAT, WITH DISCOMFORT, NASAL DISCHARGE, SNEEZING, COUGHING AND \ CHEST PAIN. INGESTION: CORROSIVE. CAUSES BURNS TO THE MOUTH AND THROAT, NAUSEA, PAIN AND MAY BE FATAL.

-Chronic (Long Term Exposure)

REPEATED CONTACT EVEN WITH DILUTED POTASSIUM HYDROXIDE CAN CAUSE SUPERFICIAL DESTRUCTION OF THE SKIN. TARGET ORGANS: NONE KNOWN. THERE IS NO PRIMARY ROUTE OF ENTRY INTO THE BODY. THE PRIMARY ROUTES OF EXPOSURE ARE SKIN AND EYE CONTACT. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING SKIN CONDITIONS SUCH AS DERMATITIS.

Primary Routes of Entry: Inhalation: Ingestion: Absorption:

Emergency and 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. WASH AFFECTED AREAS THOROUGHLY WITH LARGE AMOUNTS OF SOAP AND WATER FOR AT LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. DISCARD OR CLEAN 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. TO AN UNCONSCIOUS PERSON.

-Notes to Physician:

PROBABLE MUCOSAL DAMAGE MAY CONTRAINDICATE THE USE OF GASTRIC LAVAGE.

SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

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

POTASSIUM HYDROXIDE

EYE-RBT RINSED WITH WATER: 1 MG/24H MODERATE 3.

ORL-RAT LD50: 273 MG/KG 3.

SKN-RBT SDT: 50 MG/24H SEVERE 3.

SKN-HMN SDT: 50 MG/24H SEVERE 3.

MUT: HAMSTER OVARY : 12 MMOL/L 3.

PROPYLENE GLYCOL

SKN-HMN SDT: 500 MG/7D MILD 3.

EYE-RBT SDT: 500 MG/24H MILD 3.

ORL-RAT LD50: 20 G/KG 3.

SKN-RBT LD50: 20,800 MG/KG 3.

ORL-HMN CHILD TDLo: 79 G/KG/56W-I CONVULSIONS 3.

ORL-RAT TDLo: 88,269 MG/KG/30D-I HYPERGLYCEMIA 3.

MUT. CYTOGENETIC ASSAY-HAMSTER FIBROBLAST: 32 G/L 3.

OTHER LITERATURE SUGGESTS THAT KIDNEY DAMAGE CAN OCCUR WITH HIGH ORAL DOSES. THE RELEVANCE TO HUMANS IS UNKNOWN. 4.

SECTION VII - REACTIVITY DATA

Stability: Stable:X Unstable:

Conditions to Avoid: N/A

Incompatibility (Materials to Avoid):

STRONG OXIDANTS;LEATHER;REACTIVE METALS SUCH AS ALUMINUM,PAINTED SURFACES;GLASS;ACIDS;CHLORINATED SOLVENTS;ORGANIC HYDRIDES.

Hazardous Decomposition Products:

OXIDES OF CARBON UPON THERMAL DECOMPOSITION; HYDROGEN GAS IF IN CONTACT WITH REACTIVE METALS.

Hazardous Polymerization: May Occur: Will Not Occur:X

Conditions to Avoid: N/A

SECTION VIII - SPILL OR LEAK PROCEDURES

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