

# MATERIAL SAFETY DATA SHEET: CHEMSEARCH 777

## Section I - General Information

(000000-000000- -0182)

Date of Issue:  
1/23/2003 12:00:00 AM

Supersedes:  
7/19/2002 12:00:00 AM

Chemical Name & Synonyms:  
N/A

Trade Name & Synonyms:  
CHEMSEARCH 777

Chemical Family:  
ALKALINE MIXTURE

Formula is a mixture: [√]

Manufacturer Name:  
CHEMSEARCH DIV. OF NCH CORP.

Manufacturer Address:  
BOX 152170  
IRVING, TX 75015

Prepared By:  
L Boynton/Chemist

Product Code Number:  
0182

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	2 MG/M3 C1	N/E 2	N/E	1310-73-2
SODIUM NITRITE	*	N/E 1	N/E 2	N/E	7632-00-0
SODIUM METABORATE TETRAHYDRATE	IRRITANT	N/E 1	N/E 2	N/E	10555-76-7
PHENOLPHTHALEIN	IRR/CARC	N/E 1	N/E 2	N/E	77-09-8

\* IRRITANT/TOXIC/OXIDIZER  
C CEILING LIMIT

## Section IIa - Non-Hazardous Ingredients

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

Secret Registry #: 409363 - 5033P

## Section III - Physical Data

Boiling Point (°F): 212°	Specific Gravity (H <sub>2</sub> O=1): 1.10
Vapor Pressure (mm Hg): 17.5	Color: DARK VIOLET
Vapor Density (Air=1): 0.6	Odor: ODORLESS
pH @ 100%: 12.4	Clarity: OPAQUE
% Volatile by Volume: 83	Evaporation Rate (BuAc=1): 0.10
H <sub>2</sub> O Solubility: COMPLETE	Viscosity: NON-VISCOUS

## Section IV - Fire and Explosion Hazard

Flash Point: >200°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: 2  
3-High      Flammability: 1  
2-Moderate      Instability: 0  
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. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

**Unusual Fire and Explosion Hazards:**

IF DRIED RESIDUES OF THIS PRODUCT ARE HEATED, THEY MAY RELEASE HYDROGEN GAS WHICH COULD CREATE AN EXPLOSION HAZARD.

**Section V - Health and Hazard Data**

**Threshold Limit Value:**

2 MG/M3 AS SODIUM HYDROXIDE CEILING LIMIT 1.

**Effects of Overexposure:**

**Acute: (Short Term Exposure)**

EYE CONTACT: CAUSES SEVERE IRRITATION SEEN AS STINGING, TEARING, REDNESS AND A BURNING SENSATION AND MAY CAUSE EYE DAMAGE. SKIN CONTACT: CAUSES SEVERE IRRITATION SEEN AS REDNESS, ITCHING AND A BURNING SENSATION. INHALATION: MAY CAUSE RESPIRATORY IRRITATION SEEN AS COUGHING AND SNEEZING. INHALATION OF LARGE AMOUNTS MAY CAUSE SYSTEMIC EFFECTS DUE TO ABSORPTION OF NITRITE BY LUNG TISSUE, CAUSING EFFECTS SIMILAR TO THOSE FROM INGESTION. INGESTION: MAY CAUSE IRRITATION SEEN AS NAUSEA, VOMITING AND DIARRHEA; MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS HEADACHE, WEAKNESS, FAINTING, NAUSEA AND LOW BLOOD PRESSURE. INGESTION OF LARGE AMOUNTS MAY CAUSE EFFECTS SUCH AS METHEMOGLOBINEMIA, CYANOSIS, MARKED DECREASE IN BLOOD PRESSURE LEADING TO COLLAPSE, COMA AND POSSIBLE DEATH.

**Chronic: (Long Term Exposure)**

OVEREXPOSURE MAY CAUSE METHEMOGLOBINEMIA (REDUCED OXYGEN-CARRYING CAPACITY OF BLOOD) WITH CYANOSIS (BLuish DISCOLORATION OF SKIN) PROGRESSING TO DIZZINESS, INCOORDINATION, LOSS OF CONSCIOUSNESS, SHORTNESS OF BREATH AND INCREASED PULSE RATE. LONG-TERM INGESTION PRODUCED UNSPECIFIED PATHOLOGICAL CHANGES IN THE ADRENALS, BRAIN, HEART, KIDNEYS, LIVER, LUNGS AND SPLEEN. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA AND DERMATITIS. TARGET ORGANS: CENTRAL NERVOUS SYSTEM, HEART, LIVER, LUNGS, KIDNEYS, SPLEEN AND BLOOD-FORMING ORGANS.

**Primary Routes of Entry**

Inhalation       Ingestion       Absorption

**Emergency 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. GET IMMEDIATE MEDICAL ATTENTION. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

**Notes to Physician:**

ABSORPTION OF THIS PRODUCT MAY LEAD TO THE FORMATION OF METHEMOGLOBIN WHICH, IN SUFFICIENT CONCENTRATION, CAUSES CYANOSIS. SINCE REVERSION OF METHEMOGLOBIN TO HEMOGLOBIN OCCURS SPONTANEOUSLY AFTER TERMINATION OF EXPOSURE, MODERATE DEGREES OF CYANOSIS NEED TO BE TREATED ONLY BY SUPPORTIVE MEASURES SUCH AS BED REST AND OXYGEN INHALATION. THOROUGH CLEANSING OF THE ENTIRE CONTAMINATED AREA OF THE BODY INCLUDING SCALP AND NAILS IS OF UTMOST IMPORTANCE. IF CYANOSIS IS SEVERE, INTRAVENOUS INJECTION OF METHYLENE BLUE, 1 MG/KG OF BODY WEIGHT, MAY BE OF VALUE. CYANOCOBALAMIN (VITAMIN B-12), 1 MG INTRAMUSCULARLY, WILL SPEED RECOVERY. INTRAVENOUS FLUIDS AND BLOOD TRANSFUSIONS MAY BE INDICATED IN VERY SEVERE EXPOSURES. TREAT AS A MODERATELY STRONG ALKALI EXPOSURE. FOR INGESTION OF LARGE AMOUNTS (GREATER THAN 8 GRAMS), MAINTAIN ADEQUATE KIDNEY FUNCTION AND FORCE FLUIDS. GASTRIC LAVAGE IS RECOMMENDED FOR SYMPTOMATIC PATIENTS ONLY. HEMODIALYSIS SHOULD BE RESERVED FOR MASSIVE ACUTE INGESTION OR PATIENTS WITH RENAL FAILURE. BORON ANALYSIS OF URINE OR BLOOD ARE ONLY USEFUL FOR DOCUMENTING

EXPOSURE AND SHOULD NOT BE USED TO EVALUATE SEVERITY OF POISONING OR TO GUIDE TREATMENT.

### Section VI - Toxicity Information

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

IARC       NTP       OSHA       ACGIH       Other

**SODIUM HYDROXIDE**  
SKN-RBT LD50: 1350 MG/KG 3.  
ORL-RAT LD50: 300-500 MG/KG 3.  
SKN-RBT: 500 MG/24H SEVERE 4.  
EYE-RBT: 1 MG/24H SEVERE 4.

**SODIUM NITRITE**  
ORL-HMN TDLo: 14 MG/KG 3.  
ORL-HMN LDLo: 71 MG/KG 3.  
ORL-RAT LD50: 120 MG/KG 4.  
IHL-RAT LC50: 1.45 MG/L/AHR 4.  
EYE-RBT SDT: 500 MG/24H MILD 3.

**SODIUM METABORATE TETRAHYDRATE**  
ORL-RAT LD50: 2330 MG/KG 4.  
SKN LD50: >2000 MG/KG (ESTIMATED) 4.  
ANIMAL FEEDING STUDIES IN RATS, MICE AND DOGS DEMONSTRATED EFFECTS ON FERTILITY AND TESTES. STUDIES WITH THE CHEMICALLY RELATED BORIC ACID IN THE RAT, MOUSE AND RABBIT DEMONSTRATED DEVELOPMENTAL EFFECTS ON THE FETUS, INCLUDING FETAL WEIGHT LOSS AND MINOR SKELETAL VARIATIONS. 4.

**PHENOLPHTHALEIN**  
ORL-HMN(MAN) TDLo: 29 MG/KG 3.  
ORL-RAT LD50: >1 G/KG 3.  
RECENT STUDIES PERFORMED BY NTP HAVE SHOWN THAT RATS FED EXTREMELY HIGH DOSES DURING A PERIOD OF 6 MONTHS TO 2 YEARS HAVE DEVELOPED LIVER, KIDNEY AND LYMPH SYSTEM TUMORS. NTP CONCLUDED THAT PHENOLPHTHALEIN IS REASONABLY ANTICIPATED TO BE A HUMAN CARCINOGEN. GIVEN THE USE PATTERN OF THIS PRODUCT, THE RISK TO HUMANS IS INSIGNIFICANT IF STANDARD, WORK-HYGIENE PRACTICES ARE FOLLOWED. 5.

THERE IS INADEQUATE EVIDENCE IN HUMANS FOR THE CARCINOGENICITY OF PHENOLPHTHALEIN. THERE IS SUFFICIENT EVIDENCE IN EXPERIMENTAL ANIMALS FOR THE CARCINOGENICITY OF PHENOLPHTHALEIN. PHENOLPHTHALEIN IS POSSIBLY CARCINOGENIC TO HUMANS (GROUP 2B). 6.

### 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 REDUCERS SUCH AS METAL HYDRIDES OR ALKALI METALS, ACIDS, ACTIVATED CARBON, AMMONIUM SALTS, CYANIDES AND AMINES. UNDER CERTAIN CONDITIONS, NITRITES MAY REACT WITH SECONDARY AMINES TO FORM CARCINOGENIC NITROSAMINES.

**Hazardous Decomposition Products:**

OXIDES OF CARBON AND NITROGEN.

### Section VIII - Spill Or Leak Procedures

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

WEAR APPROPRIATE PROTECTIVE CLOTHING. VENTILATE THE AREA. 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:

GENERAL VENTILATION IS NORMALLY ADEQUATE.

### Respiratory Protection:

A NIOSH/MSHA APPROVED RESPIRATOR IN POORLY VENTILATED AREAS OR WHERE MISTING EXISTS.

### Glove Protection:

NEOPRENE OR NITRILE RUBBER GLOVES WHEN HANDLING.

### Eye Protection:

CHEMICAL GOGGLES SHOULD BE WORN.

### Other Protection:

WEAR PROTECTIVE CLOTHING WHEN HANDLING.

## Section X - Storage and Handling Information

### Storage Temperature

Max: 120°F

Min: 35°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. 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

SODIUM NITRITE

### CAS Number

7632-00-0

### Upper % Limit

10

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, 2002.
  2. OSHA PEL.
  3. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFODisc, 2002.
  4. VENDOR'S MSDS.
  5. NTP.
  6. IARC.
- ALL COMPONENTS IN THIS PRODUCT CAN BE FOUND IN THE CURRENT TSCA INVENTORY.

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, PNOS: PARTICULATES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SDT:STANDARD DRAIZE TEST, ORL: ORAL, HMN: HUMAN, IHL:INHALATION

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 THE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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# MATERIAL SAFETY DATA SHEET: CWT-92, M/M

## Section I - General Information

(000000-000000- -0618)

Date of Issue:  
3/2/2004 12:00:00 AM

Chemical Name & Synonyms:  
N/A

Chemical Family:  
AQUEOUS POLYMER SOLUTION

Manufacturer Name:  
CHEMSEARCH DIV. OF NCH CORP.

Manufacturer Address:  
BOX 152170  
IRVING, TX 75015

Prepared By:  
M McDowell/Chemist

Supersedes:  
12/14/1999 12:00:00 AM

Trade Name & Synonyms:  
CWT-92, M/M

Formula is a mixture:

Product Code Number:  
0633

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 N/E 1.	PEL N/E 2.	STEL N/E	CAS #
SODIUM POLYACRYLATE	IRRITANT				9003-04-7

## Section III - Physical Data

Boiling Point (°F): 212	Specific Gravity (H <sub>2</sub> O=1): 1.06
Vapor Pressure (mm Hg): 16.5	Color: PALE PINK
Vapor Density (Air=1): 0.6	Odor: SHARP
pH @ 100% : 12	Clarity: TRANSPARENT
% Volatile by Volume: 94	Evaporation Rate (BuAc=1): 0.55
H <sub>2</sub> O Solubility: COMPLETE	Viscosity: NON-VISCOUS

## Section IV - Fire and Explosion Hazard

Flash Point: >200°F	Method Used: N/A
Flammable Limits: N/A	UEL: N/A
LEL: N/A	Aerosol Level (NFPA 30B): N/A

### Extinguishing Media:

<input checked="" type="checkbox"/> Foam	<input checked="" type="checkbox"/> Alcohol Foam	<input checked="" type="checkbox"/> CO <sub>2</sub>
<input checked="" type="checkbox"/> Dry Chemical	<input checked="" type="checkbox"/> Water Spray	<input checked="" type="checkbox"/> Other

### NFPA 704 Hazard Rating:

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

USE CARE AS SPILLS MAY BE SLIPPERY.

## Section V - Health and Hazard Data

**Threshold Limit Value:**  
NOT ESTABLISHED. 1.

**Effects of Overexposure:**

**Acute: (Short Term Exposure)**

EYE CONTACT: CAUSES SEVERE IRRITATION SEEN AS STINGING, TEARING, REDNESS, AND A BURNING SENSATION. SKIN CONTACT: CAUSES SEVERE IRRITATION SEEN AS REDNESS, ITCHING, AND A BURNING SENSATION. INGESTION: MAY CAUSE GASTROINTESTINAL IRRITATION SEEN AS NAUSEA, VOMITING, AND DIARRHEA. INHALATION: MIST MAY CAUSE RESPIRATORY IRRITATION SEEN AS COUGHING AND SNEEZING.

**Chronic: (Long Term Exposure)**

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. 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       NTP       OSHA       ACGIH       Other

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

SODIUM POLYACRYLATE

EYE-RBT SDT: 2 MG MODERATE 3.

ORL-RAT LD50: >40 G/KG 3.

IHL-RAT TCLo: 10 MG/M3/6H/4W-I 3.

**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.

**Hazardous Decomposition Products:**

OXIDES OF CARBON AND FUMES OF SODIUM.

**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. 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-FACE PIECE 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 RUBBER OR NITRILE 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:**  
SAFETY GLASSES WITH SIDE SHIELDS 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:**  
WEAR PROTECTIVE CLOTHING WHEN HANDLING. A SAFETY SHOWER AND AN EYEWASH STATION SHOULD BE AVAILABLE.

## Section X - Storage and Handling Information

**Storage Temperature**

Max: 120°F      Min: 32°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. KEEP FROM FREEZING. IF PRODUCT FREEZES, WARM TO STANDARD ROOM TEMPERATURE SLOWLY AND STIR THOROUGHLY BEFORE USING.

**Other Precautions:**  
KEEP OUT OF REACH OF CHILDREN. READ ENTIRE LABEL BEFORE USING PRODUCT. FOLLOW LABEL DIRECTIONS.

## Section XI - Regulatory Information

**Chemical Name**

None.

**CAS Number**

**Upper % Limit**

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, 2003.
2. OSHA PEL. 3. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFOWeb, 2003. 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, PNOS:PARTICLES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SDT:STANDARD DRAIZE TEST, ORL:ORAL, IHL:INHALATION, HMN:HUMAN

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