

MATERIAL SAFETY DATA SHEET: HYDRO SOLV

Section I - General Information

(000000-000000- - 0687)

Date of Issue: 12/14/2007 12:00:00 AM
Chemical Name & Synonyms: N/A
Chemical Family: Aqueous phosphate solution
Manufacturer Name: CERTIFIED LABS, DIV. OF NCH CORP.
Manufacturer Address: BOX 152170 IRVING, TEXAS 75015
Prepared By: M MCDOWELL/CHEMIST

Supercedes: 7/27/2007 12:00:00 AM
Trade Name & Synonyms: HYDRO SOLV
Formula is a mixture: [X]

Product Code Number: 0687
Emergency Phone Number: 800-424-9300

Section II - Hazardous Ingredients

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Table with 6 columns: Chemical Name (Ingredients), Hazard, TLV, PEL, STEL, CAS #. Rows include PHOSPHATE ESTER DEA SALT, SODIUM POLYPHOSPHATE, and PHOSPHATE ESTER POE 15 TALLOW AMINE SALT.

Section III - Physical Data

Boiling Point (°F):212
Vapor Pressure (mm Hg):16.1
Vapor Density (Air=1):0.6
pH @ 100% :6.5-7.5
% Volatile by Volume:82
H2O Solubility:Complete
Specific Gravity (H2O=1):1.07-1.08
Color:Blue
Odor:Mild
Clarity:Transparent
Evaporation Rate (BuAc=1):0.5
Viscosity:Non-viscous

Section IV - Fire and Explosion Hazard

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

Extinguishing Media:
[X] Foam [X] Alcohol Foam [X] CO2
[X] Dry Chemical [X] Water Spray [ ] 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:
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: Causes irritation seen as stinging, tearing, and redness.
SKIN CONTACT: May cause irritation seen as itching and redness.
INHALATION: May cause respiratory irritation seen as coughing and sneezing.
INGESTION: May cause irritation with possible nausea, vomiting, and diarrhea.

Chronic: (Long Term Exposure)
No human chronic effects known.
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:
Rinse the eyes with water. Remove any contact lenses and continue flushing with plenty of water for several minutes. Seek medical attention if irritation develops.

Skin Contact:
Wash affected areas with plenty of soap and water for several minutes. Seek medical attention if irritation develops.

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## 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

PHOSPHATE ESTER DEA SALT  
No toxicity data available

SODIUM POLYPHOSPHATE  
No toxicity data available

PHOSPHATE ESTER POE 15 TALLOW AMINE SALT  
No toxicity data available

## 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; acids, acrylates, aldehydes, bases, formates, ketones, organic anhydrides, halides, and oxalates. Under certain conditions, may react with nitrites or other nitrosating agents to form carcinogenic nitrosamines.

### Hazardous Decomposition Products:

Oxides of Carbon, Nitrogen, Phosphorus, and Sodium; Ammonia.

## 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:

N/A

## 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-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 if repeated or prolonged skin contact is likely. Ensure compliance with OSHA's personal protective equipment (PPE) standard for hand protection, 29 CFR 1910.138.

### Eye Protection:

Safety glasses with side shields if the method of application presents the likelihood of eye contact. Ensure compliance with OSHA's Personal Protective Equipment (PPE) standard for eye and face protection, 29 CFR 1910.133.

### Other Protection:

Wear general-duty work clothes and shoes. A safety shower and an eyewash station should be available.

## 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. Traces of free Ethylene Oxide may be present in this product and could accumulate in the headspace of storage and transport vessels.

## 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, 2007.
  2. OSHA PEL.
  3. Vendor's MSDS.
  4. Registry of toxic effects of chemical substances, CCINFOWeb, 2007.
  5. European Chemical Substances Information System (ESIS), International Uniform Chemical Information Database (IUCLID) Chemical Data Sheets.
  6. ChemADVISOR, Inc. Database Release: 2007-4.
- 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.

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 IRR: Irritant, OSHA: Occupational Safety & Health Administration, IARC: International Agency for the Research on Cancer, TOX: Toxic, NFPA: National Fire Protection Association, ppm: Parts Per Million, UEL: Upper Explosion Limit, STEL: Short-term Exposure Limit, HMN: Human, mg/m3, IHL: Inhalation, COMB: Combustible, CORR: Corrosive, MUT: Mutagenic, CARC: Carcinogenic, N/A: Not Applicable, TLV: Threshold Limit Value, N/E: Not Established, ORL: Oral, FLAM: Flammable, ASPHYX: Asphyxiant, C.O.C.: Cleveland Open Cup, PNOR: Particles Not Otherwise Regulated, LEL: Lower Explosion Limit, mg/L: Milligrams per Liter, PNOS: Particles Not Otherwise Specified, g/L: Grams per Liter, PMCC: Pensky-Martin Closed Cup, NTP: National Toxicology Program, µg/L: Micrograms per Liter, TCC: Tagliabue Closed Cup, SEV: Severe, RBT: Rabbit, INV: Intravenous, ACGIH: American Conference of Governmental Industrial Hygienists, PEL: Permissible Exposure Limit, MOD: Moderate, IPT: Intraperitoneal, gm/kg: Grams per Kilogram, C.C.C.: Cleveland Closed Cup, SKN: Skin, Milligrams per Cubic Meter, mg/kg: Milligrams per Kilogram, VOC: Volatile Organic Compound, SDT: Standard Draize Test, MSE: Mouse, GPG: Guinea Pig.  
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