

# Safety Data Sheet: HYDRO SOLV

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** HYDRO SOLV  
**Recommended use** Cleaning agent  
**Information on Manufacturer**  
CERTIFIED LABS, DIV. OF NCH CORP.  
BOX 152170  
IRVING, TEXAS 75015

**Product Code** 0687  
**Chemical nature** Aqueous solution of surfactants and ethanolamine  
**Emergency Telephone Number**  
CHEMTREC® 800-424-9300  
**Telephone inquiry**  
972-579-2477

## 2. HAZARD IDENTIFICATION

**Color** Blue

**Physical State** Liquid

**Odor** Mild amine

### GHS

#### Classification

##### Physical Hazards

None

##### Health Hazard

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Respiratory Sensitization

Skin Sensitization

Specific target organ systemic toxicity (single exposure)

Specific target organ systemic toxicity (repeated exposure)

##### Other hazards

None

Category 2

Category 2A

Category 1

Category 1

Category 3

Category 2

### Labeling

#### Signal Word

**DANGER**



#### Hazard Statements

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H336 - May cause drowsiness or dizziness

H373 - May cause damage to organs through prolonged or repeated exposure

#### Precautionary Statements

P280 - Wear protective gloves, protective clothing and eye protection.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace

P260 - Do not breathe mist

P271 - Use in a well-ventilated area.

P285 - In case of inadequate ventilation wear respiratory protection

P302+ P352 - IF ON SKIN: Wash with plenty of soap and water

P333 + P313 - If skin irritation or rash occurs, get medical attention

P362 - Take off contaminated clothing and wash before reuse

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists, get medical attention.

P304 + P341 - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing

P342 + P311 - If experiencing respiratory symptoms, call a physician

P501 - Dispose of contents and container in accordance with applicable regulations.

4 % of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Tallow alkylamine ethoxylate surfactant	61791-26-2	10-30
Polyethylene glycol phenyl ether phosphate	39464-70-5	10-30
Sodium tripolyphosphate	7758-29-4	1-5
Ethanolamine	141-43-5	1-5

Monoethanolamine Phosphate	68005-08-3	1-5
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#### 4. FIRST AID MEASURES

<b>General advice</b>	Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.
<b>Inhalation</b>	Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention if symptoms occur.
<b>Notes to physician</b>	May cause sensitization of susceptible persons.

#### 5. FIRE-FIGHTING MEASURES

<b>Flash Point</b>	> 201 °F / > 94 °C	<b>Method</b>	Not applicable
<b>Flammability Limits in Air %</b>	Not applicable.	<b>Upper</b>	No data available
		<b>Lower</b>	No data available
<b>Suitable Extinguishing Media</b>	Water spray. Foam. Alcohol-resistant foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
<b>Specific hazards arising from the chemical</b>	Material can create slippery conditions.		
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.		
<b>NFPA</b>	<b>Health 2</b>	<b>Flammability 1</b>	<b>Instability 0</b>
<b>HMIS</b>	<b>Health 2</b>	<b>Flammability 1</b>	<b>Instability 0</b>

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
<b>Environmental Precautions</b>	Do not flush into surface water or sanitary sewer system.
<b>Methods for Containment</b>	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
<b>Methods for Cleaning Up</b>	Pick up and transfer to properly labeled containers.
<b>Neutralizing Agent</b>	Not applicable.

#### 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.
<b>Storage</b>	Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.
<b>Storage Temperature</b>	<b>Minimum</b> 35 °F / 2 °C
<b>Storage Conditions</b>	<b>Indoor</b> X <b>Outdoor</b> <b>Maximum Heated</b> 120 °F / 49 °C <b>Refrigerated</b>

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

##### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Tallow alkylamine ethoxylate surfactant	No data available	No data available	No data available
Polyethylene glycol phenyl ether phosphate	No data available	No data available	No data available
Sodium tripolyphosphate	No data available	No data available	No data available
Ethanolamine	TWA: 3 ppm STEL: 6 ppm	TWA: 3 ppm TWA: 6 mg/m <sup>3</sup>	IDLH: 30 ppm STEL 6 ppm STEL 15 mg/m <sup>3</sup> TWA: 3 ppm TWA: 8 mg/m <sup>3</sup>
Monoethanolamine Phosphate	No data available	No data available	No data available

<b>Engineering Measures</b>	Ensure adequate ventilation, especially in confined areas.
<b>Personal Protective Equipment</b>	
<b>Eye/Face Protection</b>	Safety glasses with side-shields.

**Skin Protection**  
**Respiratory Protection**

Wear suitable protective clothing, Impervious gloves.

In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**General Hygiene Considerations**

Remove and wash contaminated clothing before re-use. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid	<b>Viscosity</b>	Non viscous
<b>Color</b>	Blue	<b>Odor</b>	Mild amine
<b>Odor Threshold</b>	Not applicable	<b>Appearance</b>	Transparent
<b>pH</b>	7.5	<b>Specific Gravity</b>	1.075
<b>Evaporation Rate</b>	0.4 (Butyl acetate=1)	<b>Percent Volatile (Volume)</b>	70.6
<b>VOC Content (%)</b>	2.8	<b>VOC Photoreactive (Y/N)</b>	Yes
<b>VOC Max Use Dilution (g/L)</b>	8.5	<b>VOC Content (g/L)</b>	34
<b>Vapor Pressure</b>	15.9 mmHg @ 70°F	<b>Vapor Density</b>	0.6 (Air = 1.0)
<b>Solubility</b>	Completely soluble	<b>n-Octanol/Water Partition</b>	No data available
<b>Melting Point/Range</b>	No data available	<b>Decomposition Temperature</b>	No data available
<b>Boiling Point/Range</b>	212 °F / 100 °C	<b>Flammability (solid, gas)</b>	No data available
<b>Flash Point</b>	> 201 °F / > 94 °C	<b>Method</b>	Not applicable
<b>Autoignition Temperature</b>	No information available.		
<b>Flammability Limits in Air %</b>	Not applicable.	<b>Upper</b>	No data available
		<b>Lower</b>	No data available

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions. Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	None known
<b>Incompatible Products</b>	Strong oxidizing agents, Strong acids, Reducing agents, Highly halogenated compounds, Nitrites, Nitrates.
<b>Hazardous Decomposition Products</b>	Carbon oxides, Nitrogen oxides (NOx), Oxides of phosphorus, Sodium oxides, Ammonia.
<b>Possibility of Hazardous Reactions</b>	None under normal processing

## 11. TOXICOLOGICAL INFORMATION

**Product Information**

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

<b>Oral LD50</b>	No information available
<b>Dermal LD50</b>	No information available
<b>Inhalation LC50</b>	
<b>Gas</b>	No information available
<b>Mist</b>	No information available
<b>Vapor</b>	No information available

**Principle Route of Exposure** Skin contact, Eye contact, Inhalation.

**Primary Routes of Entry** Skin Absorption, Inhalation.

**Acute Effects**

<b>Eyes</b>	Severe irritation.
<b>Skin</b>	Severe irritation. May cause allergic skin reaction.
<b>Inhalation</b>	May cause irritation of respiratory tract. May cause allergic respiratory reaction. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Chronic Toxicity** Liver and kidney injuries may occur. May cause sensitization by skin contact. May cause sensitization by inhalation. Contains a known or suspected reproductive toxin.

**Target Organ Effects** Central nervous system, Respiratory system, Immune system, Reproductive System, Liver, Kidney.

**Aggravated Medical Conditions** Skin disorders, Respiratory disorders, Neurological disorders, Liver disorders, Kidney disorders.

**Component Information**
**Acute Toxicity**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Tallow alkylamine ethoxylate surfactant	no data available	no data available	no data available	no data available	no data available
Polyethylene glycol phenyl ether phosphate	no data available	no data available	no data available	no data available	no data available
Sodium tripolyphosphate	= 3100 mg/kg ( Rat )	> 7940 mg/kg ( Rabbit )	no data available	no data available	no data available
Ethanolamine	= 1720 mg/kg ( Rat )	= 1 mL/kg ( Rabbit )	no data available	no data available	no data available
Monoethanolamine Phosphate	no data available	no data available	no data available	no data available	no data available

**Chronic Toxicity**

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Tallow alkylamine ethoxylate surfactant	no data available	Skin sensitization	no data available	no data available	Immune system
Polyethylene glycol phenyl ether phosphate	no data available	no data available	no data available	no data available	no data available
Sodium tripolyphosphate	no data available	no data available	no data available	no data available	Spleen, kidneys
Ethanolamine	no data available	Skin sensitization, Respiratory sensitization	no data available	X	eyes, CNS, respiratory system, skin, liver, kidney, reproductive system, immune system
Monoethanolamine Phosphate	no data available	no data available	no data available	no data available	no data available

**Carcinogenicity**

Component	ACGIH	IARC	NTP	OSHA	Other
Tallow alkylamine ethoxylate surfactant	not applicable	not applicable	not applicable	not applicable	not applicable
Polyethylene glycol phenyl ether phosphate	not applicable	not applicable	not applicable	not applicable	not applicable
Sodium tripolyphosphate	not applicable	not applicable	not applicable	not applicable	not applicable
Ethanolamine	not applicable	not applicable	not applicable	not applicable	not applicable
Monoethanolamine Phosphate	not applicable	not applicable	not applicable	not applicable	not applicable

**12. ECOLOGICAL INFORMATION****Product Information**

No information available.

**Component Information**

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Tallow alkylamine ethoxylate surfactant	no data available	no data available	no data available	no data available	N/A
Polyethylene glycol phenyl ether phosphate	no data available	no data available	no data available	no data available	N/A
Sodium tripolyphosphate	no data available	LC50 = 1650 mg/L <i>Leuciscus idus</i> 48 h	no data available	no data available	N/A
Ethanolamine	EC50 = 15 mg/L <i>Desmodesmus subspicatus</i> 72 h	LC50 = 227 mg/L <i>Pimephales promelas</i> 96 h LC50 = 3684 mg/L <i>Brachydanio rerio</i> 96 h LC50 300 - 1000 mg/L <i>Lepomis macrochirus</i> 96 h LC50 114 - 196 mg/L <i>Oncorhynchus mykiss</i> 96 h LC50 > 200 mg/L <i>Oncorhynchus mykiss</i> 96 h	EC50 = 110 mg/L 17 h EC50 = 12200 mg/L 2 h EC50 = 13.7 mg/L 30 min	EC50 = 65 mg/L 48 h	-1.91
Monoethanolamine Phosphate	no data available	no data available	no data available	no data available	N/A

**Persistence and Degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

No information available.

**13. DISPOSAL CONSIDERATIONS****Product Disposal**

Dispose of in accordance with local regulations.

**Container Disposal**

Empty containers should be taken for local recycling, recovery, or waste disposal.

**14. TRANSPORT INFORMATION****DOT**

Not regulated

**TDG**

Not regulated

**ICAO**

Not regulated

**IATA**

Not regulated

**IMDG/IMO**

Not regulated

## 15. REGULATORY INFORMATION

## Inventories

TSCA Complies

DSL Complies

## U.S. Federal Regulations

## SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

## SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	No	No	No

## CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Tallow alkylamine ethoxylate surfactant	Not applicable	Not applicable
Polyethylene glycol phenyl ether phosphate	Not applicable	Not applicable
Sodium tripolyphosphate	Not applicable	Not applicable
Ethanolamine	Not applicable	Not applicable
Monoethanolamine Phosphate	Not applicable	Not applicable

## 16. OTHER INFORMATION

Prepared By Sarah Williamson  
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 Reason for Revision No information available.  
 Glossary No information available.  
 List of References. No information available.

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