

# Material Safety Data Sheet: YIELD

Supersedes Date 10/28/2013

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** YIELD  
**Recommended use** Lubricant  
**Information on Manufacturer**  
CHEMSEARCH DIV. OF NCH CORP.  
BOX 152170  
IRVING, TX 75015

**Product Code** C001  
**Chemical nature** Solvent blend  
**Emergency Telephone Number**  
CHEMTREC® 800-424-9300

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

#### WARNING

Flammable liquid and vapor  
May be harmful if inhaled  
Causes skin irritation  
Causes severe eye irritation  
May be harmful if swallowed

**Color** Amber

**Physical State** Liquid

**Odor** solvent

### Potential Health Effects

#### Principle Route of Exposure

Skin contact, Eye contact.

#### Primary Routes of Entry

Inhalation, Ingestion, Skin Absorption.

#### Acute Effects

##### Eyes

Severe eye irritant.

##### Skin

Causes skin irritation. May be absorbed through the skin in harmful amounts. Repeated exposure may cause skin dryness or cracking.

##### Inhalation

May cause irritation of respiratory tract. 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 irritation to mucous membranes. Aspiration hazard if swallowed - can enter lungs and cause damage.

#### Chronic Toxicity

Repeated and prolonged exposure to solvents may cause brain and nervous system damage. Liver and kidney injuries may occur. Blood disorder may occur after prolonged inhalation.

#### Target Organ Effects

Liver, Central nervous system, Cardiovascular system, Kidney, Eyes, Skin, Respiratory system.

#### Aggravated Medical Conditions

Skin disorders, Respiratory system, Liver disorders, Kidney disorders, Blood disorders, Neurological disorders.

#### Potential Environmental Effects

See Section 12 for additional Ecological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Petroleum distillates, hydrotreated light	64742-47-8
Ethyl acetate	141-78-6
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	64742-52-5
Petroleum distillates, hydrotreated light naphthenic (<3% DMSO extractable)	64742-53-6
Solvent naphtha (petroleum), medium aliphatic	64742-88-7
Sodium sulfonate	68608-26-4
Nonane	111-84-2

## 4. FIRST AID MEASURES

### General advice

Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.

### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.

### Skin Contact

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.

### Inhalation

If inhaled, remove to fresh air. Get medical attention if symptoms occur.

### Ingestion

Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

### Notes to physician

Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and

enters airways.

## 5. FIRE-FIGHTING MEASURES

**Flash Point** 69.8 °F / 21 °C **Method** Seta closed cup

**Autoignition Temperature** No information available.

**Flammability Limits in Air % Solvent mixture.**

**Upper** 11.5 **Lower** 0.6

### Suitable Extinguishing Media

Foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Specific hazards arising from the chemical

Material can create slippery conditions.

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA** **Health** 2

**Flammability** 3

**Instability** 0

**HMIS** **Health** 2

**Flammability** 3

**Instability** 0

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation.

### Environmental Precautions

Prevent further leakage or spillage if safe to do so.

### Methods for Containment

Do not flush into surface water or sanitary sewer system.

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)

### Methods for Cleaning Up

Pick up and transfer to properly labeled containers

### Neutralizing Agent

Not applicable.

## 7. HANDLING AND STORAGE

### Handling

Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.

### Storage

Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place.

### Storage Temperature

**Minimum** 40 °F / 4 °C **Maximum** 120 °F / 49 °C

### Storage Conditions

**Indoor** X **Outdoor** X **Heated** **Refrigerated**

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Petroleum distillates, hydrotreated light	5 mg/m <sup>3</sup> as oil mist	10 mg/m <sup>3</sup> as oil mist	No data available
Ethyl acetate	TWA: 400 ppm	TWA: 400 ppm TWA: 1400 mg/m <sup>3</sup>	IDLH: 2000 ppm TWA: 400 ppm TWA: 1400 mg/m <sup>3</sup>
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	TWA: 5 mg/m <sup>3</sup> ; STEL: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	IDLH: 2,500 mg/m <sup>3</sup> ; STEL 10 mg/m <sup>3</sup> ; TWA: 5 mg/m <sup>3</sup>
Petroleum distillates, hydrotreated light naphthenic (<3% DMSO extractable)	5 mg/m <sup>3</sup> as oil mist	10 mg/m <sup>3</sup> as oil mist	No data available
Solvent naphtha (petroleum), medium aliphatic	No data available	No data available	No data available
Sodium sulfonate	No data available	No data available	No data available
Nonane	TWA: 200 ppm	No data available	TWA: 200 ppm TWA: 1050 mg/m <sup>3</sup>

### Engineering Measures

Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

### Personal Protective Equipment

#### Eye/Face Protection

Tightly fitting safety goggles.

#### Skin Protection

Wear suitable protective clothing, Impervious gloves.

#### Respiratory Protection

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

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES



Nonane	not applicable	not applicable	not applicable	not applicable	not applicable
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## 12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Petroleum distillates, hydrotreated light	no data available	LC50 = 45 mg/L Pimephales promelas 96 h LC50 = 2.2 mg/L Lepomis macrochirus 96 h LC50 = 2.4 mg/L Oncorhynchus mykiss 96 h	no data available	LC50= 4720 mg/L 96 h	N/A
Ethyl acetate	EC50 = 3300 mg/L Desmodesmus subspicatus 48 h	LC50 220 - 250 mg/L Pimephales promelas 96 h LC50 = 484 mg/L Oncorhynchus mykiss 96 h LC50 352 - 500 mg/L Oncorhynchus mykiss 96 h	EC50 = 1180 mg/L 5 min EC50 = 1500 mg/L 15 min EC50 = 5870 mg/L 15 min EC50 = 7400 mg/L 2 h	EC50= 560 mg/L 48 h	0.6
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	no data available	LC50 > 5000 mg/L Oncorhynchus mykiss 96 h	no data available	EC50> 1000 mg/L 48 h	N/A
Petroleum distillates, hydrotreated light naphthenic (<3% DMSO extractable)	no data available	LC50 > 5000 mg/L Oncorhynchus mykiss 96 h	no data available	EC50> 1000 mg/L 48 h	N/A
Solvent naphtha (petroleum), medium aliphatic	EC50 = 450 mg/L Pseudokirchneriella subcapitata 96 h	LC50 = 800 mg/L Pimephales promelas 96 h	no data available	EC50> 100 mg/L 48 h	N/A
Sodium sulfonate	no data available	no data available	no data available	no data available	N/A
Nonane	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

Proper Shipping Name Flammable liquids, n.o.s.  
Hazard Class 3  
UN-No UN1993  
Packing Group II  
Description UN1993, Flammable liquids, n.o.s.(Aliphatic Petroleum Distillates, Ethyl Acetate),3,PG II

TDG

Proper shipping name Flammable liquid, n.o.s.  
Hazard Class 3  
UN-No UN1993  
Packing Group II  
Description UN1993, Flammable Liquid, n.o.s., (Aliphatic Petroleum Distillates, Ethyl Acetate),3,PG II

ICAO

UN-No UN1993  
Proper Shipping Name Flammable liquid, n.o.s.  
Hazard Class 3  
Packing Group II  
Shipping Description UN1993, Flammable liquid, n.o.s.,(Aliphatic Petroleum Distillates, Ethyl Acetate),3,PG II

IATA

UN-No UN1993  
Proper Shipping Name Flammable liquid, n.o.s.  
Hazard Class 3  
Packing Group II  
ERG Code 3L

**Shipping Description** UN1993, Flammable liquid, n.o.s., (Aliphatic Petroleum Distillates, Ethyl Acetate), 3, PG II

**IMDG/IMO**

**Proper Shipping Name** Flammable liquid, n.o.s.  
**Hazard Class** 3  
**UN-No** UN1993  
**Packing Group** III  
**EmS No.** F-E, \_S-E\_  
**Shipping Description** UN1993, Flammable liquid, n.o.s., (Aliphatic Petroleum Distillates, Ethyl Acetate), 3, PG III

### 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	Yes	No	No

**CERCLA**

Component	Hazardous Substances RQs	CERCLA EHS RQs
Petroleum distillates, hydrotreated light	Not applicable	Not applicable
Ethyl acetate	5000 lb	Not applicable
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	Not applicable	Not applicable
Petroleum distillates, hydrotreated light naphthenic (<3% DMSO extractable)	Not applicable	Not applicable
Solvent naphtha (petroleum), medium aliphatic	Not applicable	Not applicable
Sodium sulfonate	Not applicable	Not applicable
Nonane	Not applicable	Not applicable

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

B2 Flammable liquid D2B Toxic materials



### 16. OTHER INFORMATION

**Prepared By** Angela Hutson  
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**Glossary** No information available.  
**List of References.** No information available.

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