

Supersedes Date 12/21/2007

1. PRODUCT AND COMPANY IDENTIFICATION

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

Product Code 5068
Chemical Nature Solvent blend
Emergency Telephone Number
CHEMTREC® 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

Danger
Extremely flammable
May be harmful if inhaled
Causes skin irritation
Causes eye irritation
Harmful or fatal if swallowed

Color Amber - Dark amber

Physical State Liquid

Odor Petroleum distillates

Potential Health Effects

Principle Route of Exposure

Primary Routes of Entry

Acute Effects

Eyes

Skin

Inhalation

Ingestion

Chronic Effects

Target Organ Effects

Aggravated Medical Conditions

Potential Environmental Effects

Inhalation, Skin contact, Eye contact.

Inhalation, Skin Absorption.

Causes eye irritation.

Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Aspiration hazard if swallowed - can enter lungs and cause damage.

Repeated and prolonged exposure to solvents may cause brain and nervous system damage, Liver and kidney injuries may occur.

Central nervous system, Cardiovascular system, Liver, Kidney, Lungs, Heart, Blood.

Respiratory system, Skin disorders, Liver disorders, Kidney disorders, Blood disorders, Heart disease.

See Section 12 for additional Ecological information..

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Component | CAS-No |
|---|------------|
| Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable) | 64742-52-5 |
| Petroleum distillates, hydrotreated light naphthenic (<3% DMSO extractable) | 64742-53-6 |
| Sodium sulfonate | 68608-26-4 |
| Propane | 74-98-6 |
| Butane | 106-97-8 |
| Ethylacetate | 141-78-6 |
| Petroleum distillates, hydrotreated light | 64742-47-8 |

4. FIRST AID MEASURES

General Advice

Eye Contact

Skin Contact

Inhalation

Ingestion

Notes to Physician

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

Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.

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.

Move to fresh air. In case of shortness of breath, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.

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

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

5. FIRE-FIGHTING MEASURES

Flash Point < 80°F / < 27°C

Autoignition Temperature No information available.

Flammability Limits in Air % Solvent mixture.

Suitable Extinguishing Media

Foam. Carbon dioxide (CO2). Dry chemical. Water spray.

Specific Hazards Arising from the Chemical

Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions. Flame extension: >18 inches / >45 cm and Burnback: >3 inches / >7.5 cm.

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.

Hazard Level (NFPA 30B) -

| | | | | | | |
|--------|---|---|--------------|---|-------------|---|
| Health | 2 | 3 | Flammability | 4 | Instability | 0 |
| Health | 2 | | Flammability | 4 | Instability | 0 |

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment. Prevent further leakage or spillage if safe to do so.

Environmental Precautions**Methods for Containment****Methods for Cleaning Up****Neutralizing Agent**

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).

Pick up and transfer to properly labeled containers.

Not applicable.

7. HANDLING AND STORAGE

| | | | | |
|----------------------------|---|------------|----------------|-------------------------------|
| Handling | Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or mists. | | | |
| Storage | Keep away from open flames, hot surfaces and sources of ignition. | | | |
| Storage Temperature | Minimum | 35°F / 2°C | Maximum | 120°F / 49°C |
| Storage Conditions | Indoor | X | Outdoor | Heated Refrigerated |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Guidelines**

| Component | ACGIH TLV | OSHA PEL | NIOSH |
|---|-------------------|--|--|
| Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable) | No data available | No data available | No data available |
| Petroleum distillates, hydrotreated light naphthenic (<3% DMSO extractable) | No data available | No data available | No data available |
| Sodium sulfonate | No data available | No data available | No data available |
| Propane | TWA: 1000 ppm | TWA: 1000 ppm TWA: 1800 mg/m ³ | IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m ³ |
| Butane | TWA: 1000 ppm | No data available | TWA: 1900 mg/m ³ TWA: 800 ppm |
| Ethylacetate | TWA: 400 ppm | TWA: 1400 mg/m ³ TWA: 400 ppm | IDLH: 2000 ppm TWA: 1400 mg/m ³ TWA: 400 ppm |
| Petroleum distillates, hydrotreated light | No data available | No data available | No data available |

Engineering Measures

Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment**Eye/Face Protection**

Safety glasses with side-shields.

Skin Protection

Protective gloves.

Respiratory Protection

Use NIOSH approved respiratory protection.

General Hygiene Considerations

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

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|----------------------------------|--------------------|----------------------------|------------------------|
| Physical State | Liquid | Viscosity | Non viscous |
| Color | Amber - Dark amber | Odor | Petroleum distillates |
| Appearance | Transparent | pH | Not applicable |
| Specific Gravity | 0.840 | Evaporation Rate | 24.8 (Butyl acetate=1) |
| Percent Volatile (Volume) | 75.5 | VOC Content (%) | 41.9 |
| Vapor Pressure | 1548 mmHg @ 70 °F | Vapor Density | 1.7 |
| Solubility | Negligible | Boiling Point/Range | >160°F / 71°C |

10. STABILITY AND REACTIVITY**Chemical Stability**

Stable under normal conditions. Hazardous polymerization does not occur.

Conditions to Avoid

Heat, flames, and sparks.

Incompatible Products

Strong oxidizing agents, Strong acids, Strong bases, Nitric acid, Amines.

Hazardous Decomposition Products

Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides, Sulfur compounds, Aldehydes, Hydrogen sulfide and smoke.

Possibility of Hazardous Reactions

None under normal processing.

11. TOXICOLOGICAL INFORMATION**Product Information**

No information available.

Component Information**Acute toxicity**

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation | Draize Test | Other |
|---|--------------------|---|-----------------------|-------------------|-------------------|
| Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable) | 5000 mg/kg (Rat) | 2000 mg/kg (Rabbit) | 2.18 mg/L (Rat) 4 h | no data available | no data available |
| Petroleum distillates, hydrotreated light naphthenic (<3% DMSO extractable) | 5000 mg/kg (Rat) | 2000 mg/kg (Rabbit) | 2.18 mg/L (Rat) 4 h | no data available | no data available |
| Sodium sulfonate | no data available | no data available | no data available | no data available | no data available |
| Propane | no data available | no data available | 658 mg/L (Rat) 4 h | no data available | no data available |
| Butane | no data available | no data available | 658 mg/L (Rat) 4 h | no data available | no data available |
| Ethylacetate | 5620 mg/kg (Rat) | 18000 mg/kg (Rabbit) 20 mL/kg (Rabbit) | no data available | no data available | no data available |
| Petroleum distillates, hydrotreated light | 5000 mg/kg (Rat) | 2000 mg/kg (Rabbit) | 5.2 mg/L (Rat) 4 h | no data available | no data available |

Chronic Toxicity

| Component | Mutagenicity | Sensitization | Developmental Toxicity | Reproductive Toxicity | Target Organ Effects |
|---|-------------------|-------------------|------------------------|-----------------------|----------------------|
| Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable) | no data available | no data available | no data available | no data available | no data available |
| Petroleum distillates, hydrotreated light naphthenic (<3% DMSO extractable) | no data available | no data available | no data available | no data available | no data available |

| | | | | | |
|---|-------------------|-------------------|-------------------|-------------------|---------------------------------------|
| Sodium sulfonate | no data available | no data available | no data available | no data available | no data available |
| Propane | no data available | no data available | no data available | no data available | CNS, liver, heart |
| Butane | no data available | no data available | no data available | no data available | CNS, liver, heart |
| Ethylacetate | no data available | no data available | no data available | no data available | eyes, skin, respiratory system, blood |
| Petroleum distillates, hydrotreated light | no data available | no data available | no data available | no data available | CNS, cardiovascular system |

Carcinogenicity

There are no known carcinogenic chemicals in this product

| Component | ACGIH | IARC | NTP | OSHA | Other |
|---|----------------|----------------|----------------|----------------|----------------|
| Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable) | not applicable | not applicable | not applicable | not applicable | not applicable |
| Petroleum distillates, hydrotreated light naphthenic (<3% DMSO extractable) | not applicable | not applicable | not applicable | not applicable | not applicable |
| Sodium sulfonate | not applicable | not applicable | not applicable | not applicable | not applicable |
| Propane | not applicable | not applicable | not applicable | not applicable | not applicable |
| Butane | not applicable | not applicable | not applicable | not applicable | not applicable |
| Ethylacetate | not applicable | not applicable | not applicable | not applicable | not applicable |
| Petroleum distillates, hydrotreated light | 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 |
|---|--|--|--|-----------------------|---------|
| Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable) | no data available | LC50> 5000 mg/L Pimephales promelas 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 Pimephales promelas 96 h | no data available | EC50 > 1000 mg/L 48 h | N/A |
| Sodium sulfonate | no data available | no data available | no data available | no data available | N/A |
| Propane | no data available | no data available | no data available | no data available | 2.3 |
| Butane | no data available | no data available | no data available | no data available | 2.89 |
| Ethylacetate | EC50= 3300 mg/L Scenedesmus subspicatus 48 h | LC50= 230 mg/L Pimephales promelas 96 h LC50= 484 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 = 717 mg/L 48 h | 0.6 |
| Petroleum distillates, hydrotreated light | no data available | LC50= 1740 mg/L Lepomis macrochirus 96 h LC50= 45 mg/L Pimephales promelas 96 h | no data available | LC50 = 4720 mg/L 96 h | 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

Warning! Container under pressure. Do not puncture. Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT
 Proper Shipping Name
 Hazard Class
 Description

DOT
 Consumer commodity
 ORM-D
 Consumer commodity ,ORM-D,

TDG
 Proper shipping name
 Hazard Class
 UN-No
 Description

Aerosols
 2.1
 UN1950
 AEROSOLS,2.1,UN1950

ICAO
 UN-No
 Proper Shipping Name
 Hazard Class
 Shipping Description

UN1950
 Aerosols
 2.1
 Aerosols,UN1950

IATA
 UN-No
 Proper Shipping Name
 Hazard Class
 ERG Code
 Shipping Description

UN1950
 Aerosols, flammable
 2.1
 10L
 UN1950,Aerosols, flammable,2.1

IMDG/IMO
 Proper Shipping Name
 Hazard Class
 UN-No
 EmS No.
 Shipping Description

Aerosols
 2
 UN1950
 F-D, S-U
 UN1950, Aerosols,2

15. REGULATORY INFORMATION

Inventories

TSCA
DSL

Complies
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 | Yes | No |

CERCLA

| Component | Hazardous Substances RQs | CERCLA EHS RQs |
|---|--------------------------|----------------|
| Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable) | Not applicable | Not applicable |
| Petroleum distillates, hydrotreated light naphthenic (<3% DMSO extractable) | Not applicable | Not applicable |
| Sodium sulfonate | Not applicable | Not applicable |
| Propane | Not applicable | Not applicable |
| Butane | Not applicable | Not applicable |
| Ethylacetate | 5000 lb | Not applicable |
| Petroleum distillates, hydrotreated light | 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

Compressed gases, B2 Flammable liquid, D2B Toxic materials.



16. OTHER INFORMATION

Prepared By Dan Hollas
Supersedes Date 12/21/2007
Issuing Date 03/31/2009
Reason for Revision No information available.
Glossary No information available.
List of References No information available.

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