# Safety Data Sheet: SHINY-SIDE

**Supercedes Date** 02/06/2014 **Issuing Date** 09/12/2014

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** SHINY-SIDE
**Recommended use** Cleaning agent
**Information on Manufacturer**
CHEMSEARCH DIV. OF NCH CORP.
BOX 152170
IRVING, TX 75015

**Product Code** 1929
**Chemical nature** Alkaline Aqueous solution
**Emergency Telephone Number**
CHEMTREC® 800-424-9300
**Telephone inquiry**
972-579-2477

## 2. HAZARD IDENTIFICATION

**Color** Red **Physical State** Liquid **Odor** Odorless

**GHS Classification**

*Physical Hazards*

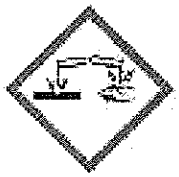
| | |
|---|---|
| Substances/mixtures corrosive to metal | Category 1 |

*Health Hazard*

| | |
|---|---|
| Skin Corrosion/Irritation | Category 1 |
| Serious Eye Damage/Eye Irritation | Category 1 |

*Other hazards*
None

**Labeling**
*Signal Word*
DANGER



*Hazard Statements*
H314 - Causes severe skin burns and eye damage
H290 - May be corrosive to metals

*Precautionary Statements*
P280 - Wear protective gloves, protective clothing, eye protection and face protection.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P260 - Do not breathe mist
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
P333 + P313 - If skin irritation or rash occurs, get medical attention
P363 - Wash contaminated clothing 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.
P310 - Immediately call a physician
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311 - If experiencing respiratory symptoms, call a physician
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P406 - Store in a corrosion-resistant container.
P390 - Absorb spillage to prevent damage
P501 - Dispose of contents and container in accordance with applicable regulations.

8 % of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Component | CAS-No | Weight % |
|---|---|---|
| Sodium hydroxide | 1310-73-2 | 7-13 |
| Tetrasodium ethylenediaminetetraacetate | 64-02-8 | 5-10 |

***

## 4. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Do not get in eyes, on skin or on clothing. Do not breathe mist. |
| **Eye Contact** | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately. |
| **Skin Contact** | Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately. |
| **Inhalation** | Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately. |
| **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** | The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed. |

## 5. FIRE-FIGHTING MEASURES

**Flash Point** > 201 °F / > 94 °C **Method** Seta closed cup
**Flammability Limits in Air %** Hydrogen, by reaction with metals. **Upper** 75 **Lower** 4
**Suitable Extinguishing Media**
Water spray. Carbon dioxide (CO2). Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
**Specific hazards arising from the chemical**
Contact with metals may evolve flammable hydrogen gas. 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** 3 | **Flammability** 1 | **Instability** 0 |
| **HMIS** | **Health** 3 | **Flammability** 1 | **Instability** 0 |

## 6. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| **Personal Precautions** | Wear protective gloves/clothing. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions. |
| **Environmental Precautions** | Do not flush into surface water or sanitary sewer system. |
| **Methods for Containment** | 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** | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) |
| **Neutralizing Agent** | Acetic acid, diluted. |

## 7. HANDLING AND STORAGE

| | |
|---|---|
| **Handling** | Do not get in eyes, on skin or on clothing. Do not breathe mist. |
| **Storage** | Keep container tightly closed in a dry and well -ventilated place. Metal containers must be lined. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using. |
| **Storage Temperature** | **Minimum** 35 °F / 2 °C **Maximum** 110 °F / 43 °C |
| **Storage Conditions** | **Indoor** X **Outdoor** **Heated** **Refrigerated** |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines**

| Component | ACGIH TLV | OSHA PEL | NIOSH |
|---|---|---|---|
| Sodium hydroxide | Ceiling: 2 mg/m$^3$ | TWA: 2 mg/m$^3$ | 10 mg/m$^3$<br>Ceiling: 2 mg/m$^3$ |

| | |
|---|---|
| **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. Face-shield. |
| **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

| | | | |
|---|---|---|---|
| **Physical State** | Liquid | **Viscosity** | Non viscous |
| **Color** | Red | **Odor** | Odorless |
| **Odor Threshold** | Not applicable | **Appearance** | Transparent |
| **pH** | 13.3 | **Specific Gravity** | 1.175 |
| **Evaporation Rate** | 0.48 (Butyl acetate=1) | **Percent Volatile (Volume)** | 81.6 |
| **VOC Content (%)** | 0 | **Vapor Pressure** | 13.84 mmHg @ 70°F |
| **Vapor Density** | 0.6 | **Solubility** | Completely soluble |
| **n-Octanol/Water Partition** | No data available | **Melting Point/Range** | No data available |
| **Decomposition Temperature** | No data available | **Boiling Point/Range** | > 212 °F / 100 °C |
| **Flammability (solid, gas)** | No data available | | |
| **Flash Point** | > 201 °F / > 94 °C | **Method** | Seta closed cup |
| **Autoignition Temperature** | No information available. | | |
| **Flammability Limits in Air %** | Hydrogen, by reaction with metals. | Upper 75 Lower 4 | |

## 10. STABILITY AND REACTIVITY

| | |
|---|---|
| **Chemical Stability** | Stable. Hazardous polymerization does not occur. |
| **Conditions to Avoid** | None known |
| **Incompatible Products** | Oxidizing agents, Acids, Aldehydes, Halogenated hydrocarbon, Acid anhydrides, Organic materials. |
| **Hazardous Decomposition Products** | Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides, Sodium oxides, Ammonia, Hydrogen, by reaction with metals. |
| **Possibility of Hazardous Reactions** | 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):**

| | |
|---|---|
| **Oral LD50** | 77,849.04 |
| **Dermal LD50** | 11,370.98 |
| **Inhalation LC50** | |
| **Gas** | No information available |
| **Mist** | 928.60 |
| **Vapor** | 928.60 |

| | |
|---|---|
| **Principle Route of Exposure** | Skin contact, Eye contact, Inhalation. |
| **Primary Routes of Entry** | None known |
| **Acute Effects** | |
| **Eyes** | Corrosive to the eyes and may cause severe damage including blindness. |
| **Skin** | Causes skin burns. |
| **Inhalation** | Harmful by inhalation. Causes burns. |
| **Ingestion** | If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. May be fatal if swallowed. |
| **Chronic Toxicity** | Inhaled corrosive substances can lead to a toxic edema of the lungs. |
| **Target Organ Effects** | Eyes, Skin, Respiratory system. |
| **Aggravated Medical Conditions** | Skin disorders, Respiratory disorders. |

**Component Information**

Acute Toxicity

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation | Draize Test | Other |
|---|---|---|---|---|---|
| Sodium hydroxide | no data available | = 1350 mg/kg ( Rabbit ) | no data available | no data available | no data available |
| Tetrasodium ethylenediaminetetraacetate | = 1658 mg/kg ( Rat ) | no data available | no data available | no data available | no data available |

| Component | Mutagenicity | Sensitization | Developmental Toxicity | Reproductive Toxicity | Target Organ Effects |
|---|---|---|---|---|---|
| Sodium hydroxide | no data available | no data available | no data available | no data available | eyes, respiratory system, skin |

**Carcinogenicity** There are no known carcinogenic chemicals in this product.

## 12. ECOLOGICAL INFORMATION

**Product Information** No information available.

**Component Information**

| Component | Toxicity to Algae | Toxicity to Fish | Microtox | Water Flea | log Pow |
|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| Sodium hydroxide | no data available | LC50 = 45.4 mg/L Oncorhynchus mykiss 96 h | no data available | no data available | N/A |
| Tetrasodium ethylenediaminetetraacetate | EC50 = 1.01 mg/L Desmodesmus subspicatus 72 h | LC50 = 41 mg/L Lepomis macrochirus 96 h<br>LC50 = 59.8 mg/L Pimephales promelas 96 h | no data available | EC50 610 mg/L Daphnia magna 24 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** Empty containers should be taken for local recycling, recovery, or waste disposal.

## 14. TRANSPORT INFORMATION

DOT
- **Proper Shipping Name** Caustic alkali liquids, n.o.s.
- **Hazard Class** 8
- **UN-No** UN1719
- **Packing Group** III
- **Description** Caustic alkali liquids, n.o.s.(Sodium hydroxide),8,UN1719,PG III

TDG
- **Proper shipping name** Caustic alkali liquid, n.o.s
- **Hazard Class** 8
- **UN-No** UN1719
- **Packing Group** III

ICAO
- **UN-No** UN1719
- **Proper Shipping Name** Caustic alkali liquid, n.o.s.*
- **Hazard Class** 8
- **Packing Group** III
- **Shipping Description** Caustic alkali liquid, n.o.s., (Sodium hydroxide),8,UN1719,PG III

IATA
- **UN-No** UN1719
- **Proper Shipping Name** Caustic alkali liquid, n.o.s.*
- **Hazard Class** 8
- **Packing Group** III
- **ERG Code** 8L
- **Shipping Description** UN1719,Caustic alkali liquid, n.o.s.,(Sodium hydroxide),8,PG III

IMDG/IMO
- **Proper Shipping Name** Caustic alkali liquid, n.o.s.
- **Hazard Class** 8
- **UN-No** UN1719
- **Packing Group** III
- **EmS No.** F-A, S-B
- **Shipping Description** UN1719, Caustic alkali liquid, n.o.s.(Sodium hydroxide),8,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 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 | No | No | No | No |

CERCLA

| Component | Hazardous Substances RQs | CERCLA EHS RQs |
|---|---|---|
| Sodium hydroxide | 1000 lb | Not applicable |

## 16. OTHER INFORMATION

| | |
|---|---|
| **Prepared By** | Angela Hutson |
| **Supercedes Date** | 02/06/2014 |
| **Issuing Date** | 09/12/2014 |
| **Reason for Revision** | No information available. |
| **Glossary** | No information available. |
| **List of References.** | No information available. |

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# Safety Data Sheet: YIELD AEROSOL

**Supercedes Date** 01/13/2011 **Issuing Date** 10/17/2013

## 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** 5C68
**Chemical nature** Solvent blend
**Emergency Telephone Number**
CHEMTREC® 800-424-9300
**Telephone inquiry**
972-579-2477

## 2. HAZARD IDENTIFICATION

**Color** Amber **Physical State** Liquid **Odor** Petroleum distillates

**GHS Classification**

*Physical Hazards*

| | |
|---|---|
| Flammable aerosols | Category 1 |
| Gases under pressure | Compressed Gas |

*Health Hazard*

| | |
|---|---|
| Aspiration Toxicity | Category 1 |
| Acute Inhalation Toxicity - Gas | Category 3 |
| Skin Corrosion/Irritation | Category 2 |
| Serious Eye Damage/Eye Irritation | Category 2 |
| Specific target organ systemic toxicity (single exposure) | Category 3 |
| Specific target organ systemic toxicity (repeated exposure) | Category 2 |

*Other hazards*
None

**Labeling**
*Signal Word*
DANGER

*Hazard Statements*
H222 - Extremely flammable aerosol
H331 - Toxic if inhaled
H336 - May cause drowsiness or dizziness
H315 - Causes skin irritation
H320 - Causes eye irritation
H304 - May be fatal if swallowed and enters airways
H373 - May cause damage to organs through prolonged or repeated exposure
H280 - Contains gas under pressure; may explode if heated

*Precautionary Statements*
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat, sparks, open flames or hot surfaces.
P251 - Pressurized container: Do not pierce or burn, even after use
P260 - Do not breathe vapor.
P271 - Use in a well-ventilated area.
P270 - Do not eat, drink or smoke when using this product
P280 - Wear protective gloves, protective clothing and eye protection.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311 - If experiencing respiratory symptoms, call a physician
P302+ P352 - IF ON SKIN: Wash with plenty of soap and water
P332 + P313 - If skin irritation occurs, get medical attention.
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.
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
P403 + P235 - Store in a well-ventilated place. Keep cool
P501 - Dispose of contents and container in accordance with applicable regulations.

9 % of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Component | CAS-No | Weight % |
|---|---|---|
| Petroleum distillates, hydrotreated light | 64742-47-8 | 15-40 |
| Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable) | 64742-52-5 | 10-30 |
| Solvent naphtha (petroleum), medium aliphatic | 64742-88-7 | 10-30 |
| Ethyl acetate | 141-78-6 | 10-30 |
| Sodium sulfonate | 68608-26-4 | 7-13 |
| Propane | 74-98-6 | 5-10 |
| Butane | 106-97-8 | 1-5 |

## 4. FIRST AID MEASURES

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

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

**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** > 80 °F / > 27 °C **Method** Seta closed cup

**Flammability Limits in Air %** Solvent mixture. **Upper** 11.5 **Lower** 0.5

**Suitable Extinguishing Media**

Water spray. Carbon dioxide (CO2). Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Specific hazards arising from the chemical**

Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Flame extension: >24 inches / >61 cm and Burnback: >3 inch / >7.5 cm. 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.

**Aerosol Level (NFPA 30B) -** 3

| | | | |
|---|---|---|---|
| **NFPA** | **Health** 2 | **Flammability** 4 | **Instability** 0 |
| **HMIS** | **Health** 2 | **Flammability** 4 | **Instability** 0 |

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.

**Environmental Precautions** Do not flush into surface water or sanitary sewer system.

**Methods for Containment** 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** Use clean non-sparking tools to collect absorbed material. Pick up and transfer to properly labeled containers.

**Neutralizing Agent** Not applicable.

## 7. HANDLING AND STORAGE

**Handling** Keep away from heat and sources of ignition. Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing.

**Storage** Keep away from open flames, hot surfaces and sources of ignition. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

**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 light | 5 mg/m$^3$ as oil mist | 10 mg/m$^3$ as oil mist | No data available |
| Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable) | TWA: 5 mg/m$^3$; STEL: 10 mg/m$^3$ | TWA: 5 mg/m$^3$ | IDLH: 2,500 mg/m$^3$; STEL 10 mg/m$^3$; TWA: 5 mg/m$^3$ |
| Solvent naphtha (petroleum), medium aliphatic | No data available | No data available | No data available |
| Ethyl acetate | TWA: 400 ppm | TWA: 400 ppm<br>TWA: 1400 mg/m$^3$ | IDLH: 2000 ppm<br>TWA: 400 ppm<br>TWA: 1400 mg/m$^3$ |
| Sodium sulfonate | No data available | No data available | No data available |
| Propane | TWA: 1000 ppm | TWA: 1000 ppm<br>TWA: 1800 mg/m$^3$ | IDLH: 2100 ppm<br>TWA: 1000 ppm<br>TWA: 1800 mg/m$^3$ |
| Butane | STEL: 1000 ppm | No data available | TWA: 800 ppm<br>TWA: 1900 mg/m$^3$ |

**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** Safety glasses with side-shields.

**Skin Protection** Wear suitable protective clothing, Impervious gloves.

**Respiratory Protection** In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**General Hygiene Considerations** 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

| | | | |
|---|---|---|---|
| **Physical State** | Liquid | **Viscosity** | Non viscous |
| **Color** | Amber | **Odor** | Petroleum distillates |
| **Odor Threshold** | Not applicable | **Appearance** | Transparent - Hazy |
| **pH** | Not applicable | **Specific Gravity** | 0.840 |
| **Evaporation Rate** | 24.77 (Butyl acetate=1) | **Percent Volatile (Volume)** | 75.4 |
| **VOC Content (%)** | 41.901 | **VOC Content (g/L)** | 352 |
| **Vapor Pressure** | 1547 mmHg @ 70 °F | **Vapor Density** | 1.7 |
| **Solubility** | Negligible | **n-Octanol/Water Partition** | No data available |
| **Melting Point/Range** | No data available | **Decomposition Temperature** | No data available |
| **Boiling Point/Range** | > 160 °F / 71 °C | **Flammability (solid, gas)** | No data available |
| **Flash Point** | > 80 °F / > 27 °C | **Method** | Seta closed cup |
| **Autoignition Temperature** | No information available. | | |
| **Flammability Limits in Air %** | Solvent mixture. | **Upper** 11.5 **Lower** 0.5 | |

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable. Hazardous polymerization does not occur.

**Conditions to Avoid** Keep away from open flames, hot surfaces, and sources of ignition

**Incompatible Products** Strong oxidizing agents, Reducing agents, Strong acids, Strong bases, Amines, Nitric acid.

**Hazardous Decomposition Products** Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides, Aldehydes, Ketones, Hydrocarbons.

**Possibility of Hazardous Reactions** 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):**

**Oral LD50** No information available

**Dermal LD50** No information available

**Inhalation LC50**

**Gas** No information available

**Mist** No information available

**Vapor** No information available

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

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

**Acute Effects**

**Eyes** Causes eye irritation.

**Skin** Causes skin irritation. 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 gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways. |
| **Chronic Toxicity** | Repeated and prolonged exposure to solvents may cause brain and nervous system damage. Liver and kidney injuries may occur. |
| **Target Organ Effects** | Central nervous system, Cardiovascular system, Respiratory system, Liver, Kidney. |
| **Aggravated Medical Conditions** | Respiratory system, Skin disorders, Neurological disorders, Liver disorders, Kidney disorders. |

**Component Information**

**Acute Toxicity**

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation | Draize Test | Other |
|---|---|---|---|---|---|
| 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 |
| Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable) | > 5000 mg/kg ( Rat ) | > 5000 mg/kg ( Rabbit ) | no data available | no data available | no data available |
| Solvent naphtha (petroleum), medium aliphatic | > 5000 mg/kg ( Rat ) | = 3000 mg/kg ( Rabbit ) | > 5.28 mg/L ( Rat ) 4 h | no data available | no data available |
| Ethyl acetate | = 5620 mg/kg ( Rat ) | > 20 mL/kg ( Rabbit ) | 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 | = 658 mg/L ( Rat ) 4 h | no data available | no data available |
| Butane | no data available | no data available | = 658 g/m$^3$ ( Rat ) 4 h | no data available | no data available |

**Chronic Toxicity**

| Component | Mutagenicity | Sensitization | Developmental Toxicity | Reproductive Toxicity | Target Organ Effects |
|---|---|---|---|---|---|
| Petroleum distillates, hydrotreated light | no data available | no data available | no data available | no data available | respiratory system, liver, kidney, CNS |
| Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable) | no data available | no data available | no data available | no data available | respiratory system |
| Solvent naphtha (petroleum), medium aliphatic | no data available | no data available | no data available | no data available | CNS, liver, kidneys |
| Ethyl acetate | no data available | no data available | no data available | no data available | eyes,respiratory system,skin |
| 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, heart |
| Butane | no data available | no data available | no data available | no data available | CNS, heart |

**Carcinogenicity** There are no known carcinogenic chemicals in this product.

| Component | ACGIH | IARC | NTP | OSHA | Other |
|---|---|---|---|---|---|
| Petroleum distillates, hydrotreated light | not applicable | not applicable | not applicable | not applicable | not applicable |
| Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable) | not applicable | not applicable | not applicable | not applicable | not applicable |
| Solvent naphtha (petroleum), medium aliphatic | not applicable | not applicable | not applicable | not applicable | not applicable |
| Ethyl acetate | 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 |

## 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<br>LC50 = 2.2 mg/L Lepomis macrochirus 96 h<br>LC50 = 2.4 mg/L Oncorhynchus mykiss 96 h | no data available | LC50= 4720 mg/L 96 h | N/A |
| 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 |
| 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 |

| | | | | | |
|---|---|---|---|---|---|
| Ethyl acetate | EC50 = 3300 mg/L Desmodesmus subspicatus 48 h | LC50 220 - 250 mg/L Pimephales promelas 96 h<br>LC50 = 484 mg/L Oncorhynchus mykiss 96 h<br>LC50 352 - 500 mg/L Oncorhynchus mykiss 96 h | EC50 = 1180 mg/L 5 min<br>EC50 = 1500 mg/L 15 min<br>EC50 = 5870 mg/L 15 min<br>EC50 = 7400 mg/L 2 h | EC50= 560 mg/L 48 h | 0.6 |
| 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 |

**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** Contents under pressure. Do not puncture. Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.

## 14. TRANSPORT INFORMATION

DOT
- **Proper Shipping Name** Consumer Commodity
- **Hazard Class** ORM-D
- **Description** Consumer Commodity, ORM-D

TDG
- **Hazard Class** ORM-D
- **UN-No** UN1950

ICAO
- **UN-No** UN1950
- **Proper Shipping Name** Aerosols, flammable
- **Hazard Class** 2.1
- **Shipping Description** UN1950, Aerosols, flammable, 2.1, LTD QTY

IATA
- **UN-No** UN1950
- **Proper Shipping Name** Aerosols, flammable
- **Hazard Class** 2.1
- **ERG Code** 126
- **Shipping Description** UN1950,Aerosols,flammable,2.1, LTD QTY

IMDG/IMO
- **Proper Shipping Name** Aerosols, flammable
- **Hazard Class** 2.1
- **UN-No** UN1950
- **EmS No.** F-A, S-A
- **Shipping Description** UN1950, Aerosols, flammable,2.1,LTD QTY

## 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 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 light | Not applicable | Not applicable |
| Petroleum distillates, hydrotreated heavy naphthenic | Not applicable | Not applicable |

| | | |
|---|---|---|
| (<3% DMSO extractable) | | |
| Solvent naphtha (petroleum), medium aliphatic | Not applicable | Not applicable |
| Ethyl acetate | 5000 lb | Not applicable |
| Sodium sulfonate | Not applicable | Not applicable |
| Propane | Not applicable | Not applicable |
| Butane | Not applicable | Not applicable |

## 16. OTHER INFORMATION

| | |
|---|---|
| **Prepared By** | Devon Kebodeaux |
| **Supercedes Date** | 01/13/2011 |
| **Issuing Date** | 10/17/2013 |
| **Reason for Revision** | No information available. |
| **Glossary** | No information available. |
| **List of References.** | No information available. |

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