

SAFETY DATA SHEET

SECTION I: IDENTIFICATION

Product: Solu-Solv
Description: Cleans-Sol
Company Identification: Solutions² LLC
1621 N. 1st St.
Winterset, IA 50273
Phone: 515-493-1153
Website: www.Solutions2llc.com



Company Emergency Telephone Number: CHEMTREC 1-800-424-9300

SECTION II: HAZARD(S) IDENTIFICATION

GHS CLASSIFICATION

Flammable Liquid: Category 3
Aspiration Toxicant: Category 1
Skin Corrosion/Irritation: Category 2
Eye Damage/Eye Irritation: Category 2A

GHS LABEL ELEMENTS

Signal Word: Danger

Hazard Pictograms:



Hazard Statements: Flammable liquid and vapor.
May be fatal if swallowed and enters airway.
Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.

Prevention: Do not breathe dust/fumes/gas/mist/vapors/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
Keep in original or other corrosion resistant container.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Keep away from heat/spark/open flames/other ignition sources. No smoking.
Keep in container tightly closed.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.

Response: Immediately call a POISON CENTER or doctor/physician.

Fire: In case of fire: Use water spray, carbon dioxide, dry chemical or alcohol resistant foam for extinction.-

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

Skin: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.

Inhalation: IF INHALED: Move victim to fresh air and keep at rest in a position comfortable for breathing.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Do NOT induce vomiting.

- Spill:** Absorb spillage to prevent material damage.
- Storage:** Store locked up.
Store in well-ventilated place.
- Disposal:** Dispose of contents and container in accordance with local, state and federal regulations.
- Hazards Not Classified:** Not applicable.

SECTION III: COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | CAS # | Weight - % |
|---------------------------------------|-------------|------------|
| Naphta (Petroleum) Hydrotreated heavy | 64742-48-9 | 25-35% |
| Methyl ester, Soybean oil | 67784-80-9 | 40-50% |
| Nonylphenol polyethylene glycol ether | 127087-87-0 | 4-5% |
| 2-Butoxyethanol | 111-76-2 | 4-8% |

Specific chemical identity and/or exact percentage of mixture has been withheld as a trade secret.

SECTION IV: FIRST AID MEASURES

- Eye Contact:** Rinse with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical assistance immediately.
- Skin Contact:** Immediately remove all contaminated clothing. Rinse with water or shower for at least 15 minutes. If irritation persists, IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
- Inhalation:** Move victim to fresh air and keep at rest in a comfortable position for breathing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
- Ingestion:** Rinse mouth. DO NOT INDUCE VOMITING. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Never give anything by mouth to an unconscious person.

SYMPTOMS OF EXPOSURE

- Eye Contact:** Primary irritation to eyes, redness, tearing, blurred vision. Liquid can cause eye irritation. Wash thoroughly after handling.
- Skin Contact:** Primary irritation to skin, defatting, dermatitis. Absorption through skin increases exposure. Wash thoroughly after handling.
- Inhalation:** Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Breathing vapor can cause irritation. Acute overexposure can cause damage to kidneys, blood, nerves, liver and lungs.
- Ingestion:** Harmful or fatal if swallowed. Swallowing can cause abdominal irritation, nausea, vomiting and diarrhea.

SECTION V: FIRE-FIGHTING MEASURES

- General Fire Hazards:** Flammable liquid and vapor.
- Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames. Do not use straight water stream.

Specific Hazards from the Chemical: The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.

Specific Methods: Evacuate area. Prevent runoff from fire or dilution from entering streams, sewers, or drinking water supply.

Protective Equipment / Precautions for Firefighters: Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear.

SECTION VI: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Environmental Precautions: Do not rinse spill onto the ground, into storm sewers or bodies of water.

Methods for Cleaning Up: If safe to do so, prevent further leakage or spillage. Contain and collect spillage with non-combustible absorbent material. Place in container for disposal according to local/national regulations (see Section 13).

SECTION VII: HANDLING AND STORAGE

Safe Handling: Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.

Storage Conditions for Safe Storage, Including any Incompatibilities: Store in original tightly closed container. Store away from incompatible materials (see Section 10).

SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: None established.

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH |
|---------------------------------------|---------------|--------------------------------------|------------------------------------|
| 2-Butoxyethanol | 20 ppm (TWA) | 240 mg/m ³ / 50 ppm (PEL) | 24 mg/m ³ / 5 ppm (TWA) |
| Naphta (Petroleum) Hydrotreated heavy | 400 ppm (TWA) | 100 ppm (TWA) OSHA Z1 | |

Engineering Controls: Ensure good general ventilation. Eye wash stations and shower facilities should be readily accessible in areas where product is handled.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye/Face Protection: Wear splash goggles. For product usage over head wear a face shield over goggles.

Skin/Body Protection: Wear rubber or other chemical resistant gloves. Use of apron, boots and other protective equipment should be considered to prevent or minimize product exposure.

Respiratory Protection: If used outdoors or in well-vented area not required if under exposure limits. A respiratory program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements must be followed whenever workplace conditions warrant a respirators use.

General Hygiene: Wash hands and any other exposed skin thoroughly after handling. For further guidance reference 29 CFR 1910.132-138.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--------------------------------|--------------------------|
| Appearance / Color | Liquid / Clear Bronze |
| Odor | Citrus |
| pH | Not applicable |
| Melting Point / Freezing Point | No information available |
| Boiling Point / Boiling Range | >349° F |
| Flash Point | >129° F |
| Evaporation Rate | No information available |
| Flammability (Solid, gas) | No information available |
| Upper Flammability Limit | No information available |
| Lower Flammability Limit | No information available |
| Vapor Pressure | No information available |
| Vapor Density | No information available |
| Specific Gravity | 0.85 |
| Solubility(ies) | No information available |

| | |
|----------------------------------|--------------------------|
| Partition Coefficient | No information available |
| Autoignition Temperature | No information available |
| Decomposition Temperature | No information available |
| Viscosity | No information available |

SECTION X: STABILITY AND REACTIVITY

| | |
|----------------------------------|---|
| Chemical Stability: | Stable under normal conditions. |
| Hazardous Polymerization: | Will not occur. |
| Conditions to Avoid: | Isolate from oxidizers, heat & open flame. |
| Incompatible Materials: | Isolate from strong oxidizers such as permanganates. Chromates & peroxides. |
| Hazardous Decomposition: | Carbon Monoxide, Carbon Dioxide from burning. |

SECTION XI: TOXICOLOGICAL INFORMATION

NUMERICAL MEASURES OF TOXICITY

| | | |
|--|-------------------------|---------------|
| Acute Toxicity Estimates (ATE): | ATEmix (oral): | > 2,000 mg/kg |
| | ATEmix (dermal): | > 2,000 mg/kg |

Component Acute Toxicity Information:

| Chemical Name | Oral LD50 | Dermal LD50 |
|---------------------------------------|---------------------|------------------------|
| Methyl ester, Soybean oil | | |
| Naphta (Petroleum) Hydrotreated heavy | > 5,000 mg/kg (Rat) | > 5,000 mg/kg (Rabbit) |
| 2-Butoxyethanol | 470 mg/kg (Rat) | 2,270 mg/kg (Rat) |
| Nonylphenol polyethylene glycol ether | 3,980 mg/kg (Rat) | 2,991 mg/l (Rabbit) |

Likely Routes of Exposure: Eyes, Skin, Ingestion, Inhalation.

SYMPTOMS OF EXPOSURE

| | |
|----------------------|--|
| Eye Contact: | Primary irritation to eyes, redness, tearing, blurred vision. Liquid can cause eye irritation. Wash thoroughly after handling. |
| Skin Contact: | Primary irritation to skin, defatting, dermatitis. Absorption through skin increases exposure. Wash thoroughly after handling. |
| Inhalation: | Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Breathing vapor can cause irritation. Acute overexposure can cause damage to kidneys, blood, nerves, liver and lungs. |
| Ingestion: | Harmful or fatal if swallowed. Swallowing can cause abdominal irritation, nausea, vomiting and diarrhea. |

IMMEDIATE, DELAYED, CHRONIC EFFECTS

| | |
|------------------------------|---|
| Product Information: | Data not available or insufficient. |
| Target Organ Effects: | Chronic overexposure can cause damage to kidneys, blood, nerves, liver and lungs. Person with severe skin, liver or kidney problems should avoid use. |
| Carcinogenicity: | No components present at 0.1% or greater are listed to be carcinogens by ACGIH, IARC, NTP or OSHA. |

SECTION XII: ECOLOGICAL INFORMATION**ECOTOXICITY**

| Chemical Name | Algae/Aquatic Plants | Fish | Microtoxicity | Crustacea |
|---------------------------------------|----------------------|---------------------------|---------------------------|---------------------------|
| Naphta (Petroleum) Hydrotreated heavy | | LLO 1,000 mg/l, 96 hrs | ELO 1,000 mg/l, 72 hrs | ELO 1,000 mg/l, 48 hrs |
| 2-Butoxyethanol | | 1,250 mg/l, 96 hrs | | |
| Nonylphenol polyethylene glycol ether | | 1-10 mg/l, 96 hrs | > 1,000 mg/l, 16 hrs | 9.3-21.4 mg/l, 48 hrs |

Persistence and Degradability: Not available.

Bioaccumulative Potential: Not available.

Mobility in Soil: Not available.

SECTION XIII: DISPOSAL CONSIDERATIONS

Disposal of Waste: Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

SECTION XIV: TRANSPORT INFORMATION

DOT: Not regulated by DOT in containers of < 119 gallons.

UN/ID #: UN1268

Proper Shipping Name: Petroleum Distillates, N.O.S.

Hazard Class: 3

Packing Group: III

SECTION XV: REGULATORY INFORMATION**TSCA Status (Toxic Substance Control Act Section 8(b) Inventory):**

All chemical components in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313: This product does not contain listed substances above the "de minimus" level.

SARA 311/312 HAZARD CATEGORIES

Acute Health Hazard: Yes

Chronic Health Hazard: Yes

Fire Hazard: Yes

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

California Proposition 65: This product does not contain any Proposition 65 chemicals.

SECTION XVI: OTHER INFORMATION

Issue Date: 07/01/16

HAZARD RATINGS:

Version #: 2

| | | | |
|--------------|-----------|-----------------|---------------------|
| NFPA: | Health: 1 | Flammability: 2 | Physical Hazards: 0 |
| HMIS: | Health: 1 | Flammability: 2 | Physical Hazards: 0 |

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