

Material Safety Data Sheet

Product Name: Star Solv 100

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Manufactured by:
Randall Industries, LLC
4565 Hemlock Road
Cherry Tree, PA 15724

Section I

Emergency Phone Number: 1-800-535-5053
Phone Number for Information: 1-814-743-6630
MSDS Revision: Mar 10, 2006

Section II - Hazardous Ingredients

| Ingredient(s): | CAS No: | OSHA PEL | ACGIH TLV |
|----------------|-----------|----------|-----------|
| d-limonene | 5989-27-5 | N/D | N/D |

HMIS: 120

NFPA: 120

N/A=Not Applicable N/D=Not Determined

Section III - Physical / Chemical Data

| | | | | |
|----------------|--------------|----------------------|--------------|-------------------|
| Appearance: | Clear Yellow | Solubility in Water: | Emulsifiable | |
| Odor: | Citrus | Specific Gravity: | 0.86 | Water = 1 |
| pH: | N/A | Vapor Pressure: | 2 | mm Hg |
| Boiling Point: | 310 | Vapor Density: | N/D | Air = 1 |
| Melting Point: | N/D | Evaporation Rate: | < 1 | Butyl Acetate = 1 |

Section IV - Fire And Explosion Hazards

Flash Point: 124 (51) °F (°C) (CC) Flammable Limits: for D-limonene LEL: 0.7 % UEL: 6.1 %

Extinguishing Media: Use foam, dry chemical or Carbon Dioxide. Handle as an oil fire. Class B fire procedures.

Special Fire Fighting Procedures: Wear an approved self-contained breathing apparatus and protective clothing with full face piece operated in the positive pressure demand mode and full body protection.

Fire / Explosive Hazards: Combustible liquid. Keep away from heat and open flame. Guard against spontaneous combustion of improperly discarded rags.

Section V - Reactivity Data

Stability: Stable Unstable

Hazardous Polymerization: May occur Will not occur

Incompatibility: Strong oxidizing agents and acids.

Hazardous Decomposition Products: Carbon monoxide & carbon dioxide.

Conditions to Avoid: Polymerization catalysts such as aluminum chloride and acidic clays.

Section VI - Health Hazard Data

Primary Routes of Entry: Inhalation Skin Contact Ingestion

Health Hazards: Acute: Harmful if swallowed.
Prolonged exposure may cause drying, defatting, and dermatitis of the skin.

Carcinogenicity: NTP IARC Monographs OSHA Regulated Not a carcinogen

Signs and Symptoms of Exposure: Irritating to eyes & skin.
Ingestion: May cause vomiting, headache and other medical problems.
Inhalation: May cause coughing, sneezing, and upper respiratory irritation.

Conditions Generally Aggravated by Exposure: Pre-existing skin disorders may be aggravated with contact.

Emergency and First Aid Procedures: Eyes & Skin: Flush with water for 15 minutes, if irritation persists get medical attention.
Ingestion: Do not induce vomiting. Drink water, milk of magnesia. Get medical attention.
Inhalation: Move to fresh air.

Section VII - Precautions for Safe Handling and Use

If Material is Released or Spilled: Contain liquid to prevent discharge to streams. Spills or releases should be reported to appropriate local, state and federal regulatory agencies.

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

Precautions for Handling and Storing: Store between 40 and 120 degrees F.

Other Precautions: Container may be under pressure. Do not weld empty container, vapors may ignite.

Section VIII - Control Measures

Respiratory Protection: Chemical cartridge respirator in confined areas with poor vent. Ventilation: Local Exhaust

Protective Gloves: Chemical resistant gloves

Eye Protection: Chemical goggles or face shield.

Other Protective Equipment: Impervious clothing and boots.

Work/Hygenic Practices: Wash hands before eating. Launder contaminated clothing before re-use.