1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Code: 47111302
Trade Name: SOLDORON SC SECONDARY
Manufacturer/Supplier: Shipley Company
Address: 455 Forest St., Marlborough, Massachusetts 01752
Phone Number: (508) 481-7950
Emergency Phone Number: (508) 481-7950
Chemtrec #: (800) 424-9300
MSDS first issued: 28 September 1999
MSDS data revised: 
Prepared By: Environmental, Health & Safety Department
Local Sales Company: Shipley Company, 455 Forest Street, Marlboro, MA 01752
(508-481-7950)

2. COMPOSITION/INFORMATION ON THE INGREDIENTS

Components without CAS numbers are Trade Secret

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS# / Codes</th>
<th>Concentration</th>
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<tbody>
<tr>
<td>Glycol</td>
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<td>&gt; 95.00</td>
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3. HAZARD IDENTIFICATION

Main Hazards: - Irritant - Respiratory System - Skin - Eye - Nervous System
Routes of Entry: Inhalation, ingestion, eye and skin contact, absorption.
Carcinogenic Status: Not considered carcinogenic by NTP, IARC and OSHA
Target Organs: - Eye - Skin - Respiratory System - Nervous System
Health Effects - Eyes: Liquid, mist or vapor may cause conjunctival irritation and transient corneal damage.
Health Effects - Skin: Material may cause irritation. Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis. Can be absorbed through the skin, but exposure must be severe before health effects are expected.
Health Effects - Ingestion: Swallowing may have the following effects:
- irritation of mouth, throat and digestive tract - nausea - vomiting - diarrhea
Repeted doses may have the following effects:
- damage to the central nervous system

Health Effects - Inhalation: Exposure to vapor at high concentrations may have the following effects:
- irritation of nose, throat and respiratory tract - central nervous system depression - headache - nausea - vomiting

4. FIRST AID MEASURES

First Aid - Eyes: Immediately flush the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.
First Aid - Skin: Wash skin with water. Continue washing for at least 15 minutes. Obtain medical attention if blistering occurs or redness persists.
First Aid - Ingestion: Wash out mouth with water. Have victim drink 1-3 glasses of water to dilute stomach contents. Induce vomiting. Obtain medical attention.
First Aid - Inhalation: Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.
Advice to Physicians: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Not readily combustible. Select extinguishing agent appropriate to other materials involved.
Special Fire-Fighting Procedures: This product may give rise to hazardous vapors in a fire.
Unusual Fire & Explosion Hazards: None.
Protective Equipment for Fire-Fighting: Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Contain and absorb using earth, sand or other inert material.
Personal Precautions: Wear appropriate protective clothing.
Environmental Precautions: Prevent the material from entering drains or water courses. Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

7. HANDLING AND STORAGE

Handling: Use in well ventilated area. Avoid inhaling vapor. Avoid contact with eyes, skin and clothing.
Storage: Store in original containers. Storage area should be:
- cool - dry - well ventilated - out of direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards: None assigned.
Glycol: None assigned.
Engineering Control Measures: Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local exhaust), and control of process conditions.
Respiratory Protection: Respiratory protection not normally required. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.
Hand Protection: Butyl rubber or nitrile gloves. Other chemical resistant gloves may be recommended by your safety professional.
Eye Protection: Chemical goggles.
Body Protection: Normal work wear.
9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Color: Clear Dark Blue - Black
Odor: Mild
VOC (g/l): 1011
Specific Gravity: 1.034-1.042
pH: 5.0-6.0
Boiling Range/Point (°C/F): Not determined.
Flash Point (PMCC) (°C/F): >100 / >212
Explosion Limits (%): Not applicable.
Solubility in Water: Completely soluble.
Vapor Density (Air = 1): Heavier than air.
Evaporation Rate: Slower than ether
Vapor Pressure: Equivalent to water.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Conditions to Avoid: - contact with incompatible materials - Exposure to direct sunlight - heat
Incompatibilities: - Strong oxidizing agents - Reducing agents - Strong acids - Strong bases
Hazardous Polymerization: Will not occur.
Hazardous Decomposition Products: - carbon monoxide - Carbon Dioxide

11. TOXICOLOGICAL INFORMATION

Acute Data: Glycol: Oral LD50 (rat) 2000-3400mg/kg.
Chronic/Subchronic Data: No relevant studies identified.
Genotoxicity: No relevant studies identified.
Reproductive/Developmental Toxicity: No relevant studies identified.
Additional Data: None.

12. ECOLOGICAL INFORMATION

Mobility: The product will dissolve rapidly in water. The product is poorly absorbed onto soils or sediments. The product will leach into soil.
Persistence/Degradability: No relevant studies identified.
Bio-accumulation: No relevant studies identified.
Ecotoxicity: The product may be harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Product Disposal: This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the product’s user to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because the product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.
Container Disposal: Labels should not be removed from containers until they have been cleaned. Empty containers may contain hazardous residues. Dispose of containers with care.

14. TRANSPORT INFORMATION

DOT Ground: Not Regulated
UN Proper Shipping Name: Not Regulated
UN Class: None.
UN Number: None
UN Packaging Group: None.
N.O.S. 1: Not applicable.
N.O.S. 2: Not applicable.
Subsidiary Risks: None.
ADR/RID Substance Identification Number: None assigned.
CERCLA RQ: None.
Marine Pollutant: None.

15. REGULATORY INFORMATION

TSCA Listed: All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50. This product is not subject to a Section 5(e) Consent Order or Significant New Use Rule (SNUR).

TSCA Exemptions: This product does not contain any substances subject to Section 12(b) export notification.

WHMIS Classification: D.2.B

MA Right To Know Law: All components have been checked for inclusion on the Massachusetts Substance List (MISL). Those components present at the de minimus concentration have been identified in the hazardous ingredients section of the MSDS.

California Proposition 65: This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

SARA TITLE III-Section 311/312 Categorization (40 CFR 370): Immediate health hazard

SARA TITLE III-Section 313 (40 CFR 372): This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

16. OTHER INFORMATION

NFPA Rating- FIRE: 1
NFPA Rating- HEALTH: 2
NFPA Rating- REACTIVITY: 0
NFPA Rating- SPECIAL: None.
Disclaimer

The data contained herein is based on information that Shipley Company believes to be reliable, but no expressed or implied warranty is made with regard to the accuracy of such data or its suitability for a given situation. Such data relates only to the specific product described and not to such products in combination with any other product and no agent of Shipley Company is authorized to vary any of such data. Shipley Company and its agents disclaim all liability for any action taken or foregone on reliance upon such data.