

Material Safety Data Sheet

S-34 Aqueous Cleaner

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Section I: Product Identification

Product name: S-34
Synonym: Aqueous Cleaner
Molecular Formula: Blended Product

The "Plain English" Section

Material Safety Data Sheets can be confusing. Federal law requires us to print a great deal of technical information, which probably won't help the non-scientist. ECOLINK includes this "PLAIN ENGLISH" section, written to address the questions and concerns of the average person. If you have additional health, safety or product questions, don't hesitate to call us at 800/886-8240.

Health Hazards: S-34 is an industrial chemical. We call it "environmentally preferred" because it is intended to replace products that are more hazardous, (1,1,1 trichloroethane, mineral spirits, MEK, etc.). This does not mean that it is completely harmless. It is strong enough to remove tough industrial soils, so it can irritate your skin. We suggest you wear gloves, and avoid extended exposure to unprotected skin. Don't get it in your eyes, or breath large amounts of the vapor, (it will dry out your nasal passages). Used on a rag or from a spray bottle, the product won't produce fumes in any great quantity, (don't spray this material under high pressure without adequate ventilation). For more exposure and first aid information, please read through this MSDS.

Flashpoint: S-34 does not have a flashpoint. Under virtually all industrial circumstances and conditions, this material will not burn, (under exactly the right conditions, it can be made to ignite). Combustion in ordinary use isn't a big concern but if you want to discuss a specific application, please call us. We do not recommend using this, or any other industrial solvent, around welding or hot work areas.

Disposal: Straight from the drum, S-34 is not considered a hazardous waste product. Once it is contaminated with whatever you are cleaning, the resulting mixture may fall under a hazardous classification, depending on whether or not the material you are cleaning is hazardous. If you aren't sure how to dispose of this material, give us a call and we will help you make the right decisions.

Section II: Chemical or Hazardous Components

| | |
|---------------|---|
| Chemical Name | *2-Butoxy Ethanol |
| CAS No. | 111-76-2 |
| Approx. wt. % | 1-5% |
| Exposure | ACGIH-TLV – 25 ppm (Skin) OSHA-PEL – N/E |

| | |
|---------------|-----------------------------------|
| Chemical Name | Trisodium Phosphate |
| CAS No. | 7601-54-9 |
| Exposure | ACGIH-TLV – N/E OSHA-PEL – N/E |

* Indicates toxic chemical(s) subject to the reporting requirements of SARA section 313 of Title III and of 40 CFR 372.

| | |
|---|-----|
| RCRA REGULATED: | No |
| CERCLA (superfund): | N/A |
| ALL MATERIALS IN PRODUCT ARE TSCA LISTED. | |
| DOT Regulated: | No |
| DOT Haz. Class: | N/A |
| DOT Shipping Name: | N/A |
| DOT Number: | N/A |

Section III: Physical Data

| | |
|-----------------------------|--|
| Boiling Point: | 212°F. |
| Specific Gravity (H2O=1): | 1.03 |
| VOC Content | 25 gm/l |
| Vapor Pressure (psia.): | 17 mm Hg |
| Melting Point: | N/A |
| Vapor Density (AIR=1): | N/A |
| Evaporation Rate (water=1): | Approximately 1.0 |
| Solubility In Water: | Soluble |
| Appearance & Odor: | Clear green liquid with glycol ether odor. |
| pH: | 11-12 |

Section IV: Fire and Explosion Hazard Data

Flash Point (Method):
Bulk Liquid (TCC) None to boiling

Flammable Limits:
LEL N/A
UEL N/A

Extinguishing Media:
N/A

Special Fire Fighting Procedures:
N/A

Unusual Fire & Explosion Hazards:
Burning can produce carbon monoxide and/or carbon dioxide. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant.

Section V: Reactivity Data

Stability: Stable under normal conditions

Conditions to Avoid:
None known

Incompatibility (materials to avoid): Strong oxidizers such as chlorine bleach and strong acids

Hazardous Decomposition:
Incomplete combustion can yield carbon monoxide and toxic vapors.

Hazardous Polymerization:
Will not occur.

Section VI: Health Hazard Data

Primary Routes of Exposure:
Oral, inhalation, & skin

Ingestion:
Harmful if swallowed.

Inhalation:
Inhaling mist from spray may cause nose and throat irritation.

Eyes:
Causes severe eye irritation and may possibly cause corrosive burns.

Skin Contact:
Frequent or prolonged contact may cause skin irritation experienced as burning, drying, cracking and redness. Material can be absorbed through the skin possibly leading to damage to the blood and liver.

Health Hazards (Acute and Chronic):
Prolonged ingestion or inhalation of large amounts may cause kidney and/or liver damage. Overexposure to 2-Butoxy Ethanol can cause mild, reversible liver effects, mild, reversible kidney effects and blood abnormalities.

First Aid:

Ingestion: Give 1 or 2 glasses of water followed by citrus juice if available. Call a physician, hospital emergency room or poison control center.

Inhalation: Remove victim to fresh air immediately. If coughing, difficult breathing or any other respiratory symptoms persist seek medical attention at once.

Eyes: Irrigate immediately with water for at least 15 minutes, lifting eyelids periodically to remove contamination. Get medical attention immediately.

Skin: Immediately flush with large quantities of water for at least 15 minutes. Remove contaminated clothing and launder before re-use. Get medical attention for irritation or any other symptom.

Carcinogen: NTP – Not Listed
IARC Monographs – None
OSHA REGS – Not Regulated

Section VII: Precautions for Safe Handling

HMIS Information:
Health – 2 / Reactivity – 0
Flammability – 0 Personal Protection – B

HMIS Definition:
0 – Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Extreme
“/” in the Health Category denotes material does not target any major organs.
“*” in the Health Category denotes material may target certain organs.

Eye Protection
Safety glasses or goggles.

Protective Gloves:
Impermeable chemical handling gloves for skin protection.

Respiratory Protection:
Not required under conditions of normal use.

Ventilation: General mechanical ventilation or local exhaust.

Other Protective Clothing or Equipment: Eyewash facility.

Work Practices: Wash hands after using and before smoking or eating.

Section VIII: Control Measures

Spills: Keep spectators away. Dike and contain spill.

Neutralize with baking soda to pH 6-10. Wet vac up or cover with inert material (e.g. sand, earth). Transfer to covered plastic containers for recovery or disposal.

Prevent contamination of sewers, streams and groundwater with spilled material or used absorbent.

Waste Disposal Method: Dispose in compliance with state, federal and local regulations for non-hazardous chemical wastes.

Precautions To Be Taken In Handling & Storing: Use with adequate ventilation.

Other Precautions: Avoid skin and eye contact. Do not breathe spray mist. Keep out of reach of children.

Section IX: Part Number and Packaging

| <u>Product Name</u> | <u>Part No.</u> | <u>Packaging</u> |
|---------------------|-----------------|------------------|
|---------------------|-----------------|------------------|

| | | |
|------|--------|----------------|
| S-34 | 077-55 | 55 Gal Drum |
| S-34 | 077-5 | 5 Gal Pail |
| S-34 | 077-1 | 4 x 1 Gal Case |
| S-34 | 077-12 | 12 x 1 Qt Case |

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END OF MSDS