

MATERIAL SAFETY DATA SHEET

Date Issued: 10/24/2012
Solvair Start-up Fluid

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Solvair Start-up Fluid

GENERAL USE: This product is intended solely for use in conjunction with Solvair Cleaning Technology. Solvair Start-up Fluid is provided in containers equipped with two-way shut-off quick connect fittings that enable the container to be connected to and disconnected from the Solvair machine without spills or leaks. When used for the intended purpose opportunity for direct operator contact is virtually eliminated.

PRODUCT DESCRIPTION: Textile Cleaning Fluid

MANUFACTURER

R. R. Street & Co. Inc.
 215 Shuman Boulevard/Suite 403
 Naperville, IL 60563

Product Information: 800-323-7206 (USA
 & Canada only) or 630-416-4244

24 HR. EMERGENCY TELEPHONE NUMBERS

Medical Emergency: 866-303-6947 (USA & Canada only) or 651-632-9272

Transportation Emergency: 800-424-9300 (USA & Canada only) or 703-527-3887

2. COMPOSITION / INFORMATION ON INGREDIENTS

The specific identities of one or more components of this product are withheld as trade secrets.

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>
(trade secret #1)	-	-

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYES: May cause slight corneal injury.

SKIN: No data available.

SKIN ABSORPTION: Prolonged skin contact is unlikely to result in absorption of harmful amounts.

INGESTION: Low toxicity if swallowed. In the unlikely event that the product is swallowed incidental to normal handling operations, it is not likely to cause injury; however, swallowing larger amounts may cause injury.

INHALATION: Prolonged exposure is not expected to cause adverse effects.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Irritation, redness.

SKIN ABSORPTION: No symptoms identified.

INGESTION: No symptoms identified.

INHALATION: No symptoms identified.

MEDICAL CONDITIONS AGGRAVATED: No data available.

ROUTES OF ENTRY: Inhalation and skin.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes and continue flushing. Get immediate medical attention, preferably from an ophthalmologist.

SKIN: Remove contaminated clothing. Wash skin with plenty of water. Consult a physician if irritation persists.

INGESTION: Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

INHALATION: Remove affected person to fresh air. If not breathing, give artificial respiration then consult a physician.

ADDITIONAL INFORMATION: After emergency actions, call the emergency medical information number on page 1 or a physician immediately. Note to physician: no specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: >93.3°C (>200°F) Setaflash

FLAMMABLE LIMITS: >0.5% to >20% **AUTOIGNITION TEMPERATURE:** >175°C (>347°F)

FLAMMABLE CLASS: NFPA Class III B

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foam, water spray or fog.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Clean up spill with absorbent material. Wash or dispose of absorbent (see section 13). Scrub the area with detergent and water.

LARGE SPILL: Extinguish all sources of ignition. Contain spill. Clean up spills immediately with absorbent material, observing precautions in the Protective Equipment section. Place absorbed material in closed containers for disposal (see section 13). Do not flush to sewer. Avoid contamination of ground and surface waters.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Keep away from heat and flame.

HANDLING: Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

STORAGE: Store in labeled, tightly sealed containers.

ELECTROSTATIC ACCUMULATION HAZARD: Not applicable.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

	<u>EXPOSURE LIMITS</u>					
	<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>Supplier OEL</u>	
	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>
(trade secret #1)	TWA	NE ^[1]	NE	NE	10	NE
	STEL	NE	NE	NE	NE	NE

TABLE FOOTNOTES:

1. NE=Not established.

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ENGINEERING CONTROLS: None required under ordinary conditions.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields (or goggles).

SKIN: Wear Butyl or Barrier™ gloves.

RESPIRATORY: None required under ordinary circumstances. If released under pressure, respiratory protection may be needed, including a self-contained breathing apparatus.

PROTECTIVE CLOTHING: Where contact is likely, wear the appropriate chemical resistant equipment, which depending on circumstances may include gloves, a chemical suit, rubber boots, chemical safety goggles, and/or a face shield.

WORK HYGIENIC PRACTICES: Wash hands thoroughly after handling. Do not eat or drink in work area.

OTHER USE PRECAUTIONS: Have eye wash station available. Do not wear contact lenses without eye protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid.

ODOR: Mild alcohol.

APPEARANCE: Clear.

COLOR: Colorless to nearly colorless.

pH: Not applicable.

PERCENT VOLATILE: ~99

VAPOR PRESSURE: <10 mm Hg at 20°C

VAPOR DENSITY: >1 (air=1)

BOILING POINT: >100°C (212°F)

FREEZING POINT: <0°C (32°F)

SOLUBILITY IN WATER: Partial.

EVAPORATION RATE: 0.006 (solvent component; butyl acetate = 1)

SPECIFIC GRAVITY: <1

VISCOSITY: No data available.

COEFF. OIL/WATER: No data available.

ODOR THRESHOLD: No data available.

10. STABILITY AND REACTIVITY

STABLE: Yes.

HAZARDOUS POLYMERIZATION: No.

CONDITIONS TO AVOID: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition products depend on temperature, air supply, and the presence of other materials. Hazardous decomposition products may include aldehydes, ketones, organic acids.

INCOMPATIBLE MATERIALS: Strong acids and bases and oxidizing materials.

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: >5000 mg/kg (rabbits).

ORAL LD₅₀: >3500 mg/kg (rat)

INHALATION LC₅₀ (aerosol): >2.0 mg/L (rat)

CHRONIC

TARGET ORGANS: In animals effects have been reported on the liver, kidney, and respiratory tract. These effects were species specific and unlikely to occur in humans.

SENSITIZATION: Did not cause allergic skin reactions when tested in humans and guinea pigs.

CARCINOGENICITY:

IARC: Not listed as a carcinogen.

NTP: Not listed as a carcinogen.

OSHA: Not listed as a carcinogen.

OTHER: Not applicable.

OTHER: No data available.

REPRODUCTIVE EFFECTS: In animal studies did not interfere with reproduction. Did not cause birth defects or any other fetal effects in laboratory animals.

MUTAGENICITY: In vitro genetic toxicity studies were negative; animal genetic toxicity studies were negative.

SYNERGISTIC MATERIALS: No data available.

GENERAL COMMENTS: Refer to Section 3 for additional information on potential health effects.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Primary component is readily biodegradable. Other components are biodegradable.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with federal, state and local regulations.

EMPTY CONTAINER: Do not cut or weld empty drums.

RCRA/EPA WASTE INFORMATION: This product, if disposed of, contains no material listed by RCRA as a hazardous waste.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not regulated.

OTHER SHIPPING INFORMATION: Not applicable.

CANADA TRANSPORT OF DANGEROUS GOODS**PROPER SHIPPING NAME:** Not regulated.**OTHER SHIPPING INFORMATION:** Not applicable.**AIR (ICAO/IATA)****PROPER SHIPPING NAME:** Not regulated.**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****311/312 HAZARD CATEGORIES:****FIRE:** No. **PRESSURE GENERATING:** No. **REACTIVITY:** No. **ACUTE:** Yes.**CHRONIC:** No.**313 REPORTABLE INGREDIENTS:** Not applicable.**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)****CERCLA RQ:** Not applicable.**REPORTABLE SPILL QUANTITY:** Not applicable.**RCRA STATUS:** See section 13.**CANADA****WHMIS CLASS:** Class D, Division 2**MEXICO**

Not regulated for transportation.

STATE REGULATIONS**MASSACHUSETTS:**

Contains no substances regulated by the Massachusetts Substance List.

CALIFORNIA:**PROPOSITION 65 STATEMENT:** This product contains no ingredients known to the state of California to cause cancer, birth defects, or other reproductive harm.**16. OTHER INFORMATION**

HMIS RATINGS	
HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0
PERSONAL PROTECTION:	B

NFPA RATINGS