

HMIS RATINGS:  
Health: 1  
Flammability: 2  
Reactivity: 0  
Personal Protection: B

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: TORNADO  
Chemical Family: Carpet Care  
Company Identification: ATLANTIC SOLUTIONS, INC  
P.O. BOX 5064  
CHAPEL HILL, NC 27514

Emergency Telephone Number: (800)535-5053  
Date Prepared: NOV 6, 2003  
MSDS Number:

Section 2: COMPOSITION, INFORMATION ON INGREDIENTS

CAS NUMBER	CHEMICAL NAME	% BY WGHT.	OSHA PEL/ ACGIH TLV	SARA 302/304(1)*	SARA 313 (2)*	STATE INFO(3)(4)
8052-41-3	Odorless Mineral Spirits	< 22.0	500 ppm / 500 ppm	NO	NO	NO
64-02-8	Tetrasodium Salt of Ethylenediamine-tetraacetic acid	< 2.0	n/e / n/e	NO	NO	NO
34590-94-8	Dipropylene Glycol Monomethyl Ether	< 2.0	100 ppm /	NO	NO	NO

\* See Section 15 for more information

n/e = none established - n/a = not applicable

Section 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION. Combustible. May be harmful or fatal if swallowed. Aspiration hazard. Vapor harmful. Keep away from heat and flames. Off-white emulsion with pleasant fragrance.

Primary Route of Entry: Skin contact, ingestion, inhalation

Acute/Potential Health Effects:

EYES: May cause mild eye irritation. Symptoms include stinging, tearing and redness.

SKIN: May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin.

INHALATION: Avoid breathing vapors or mists. May cause dizziness, nausea, headache or loss of consciousness.

INGESTION: Harmful or fatal if swallowed. Aspiration hazard - this material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

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**Section 3: HAZARDS IDENTIFICATION - continued:**

**Chronic / Long Term Effects:** Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

**Signs and Symptoms of Overexposure:** Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness).

**Target Organ Effects:** No data.

**Reproductive/Developmental Information:** No data.

**Carcinogenic Information:** This material is not listed as a carcinogen by IARC, NTP or OSHA.

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**Section 4: FIRST AID MEASURES**

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

**SKIN:** Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention immediately.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**INGESTION:** Seek medical attention immediately. Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Do not leave individual unattended.

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**Section 5: FIRE FIGHTING MEASURES**

**Flash Point:** 150 degrees F (T.O.C. Method)

**Extinguishing Media:** Dry chemical, CO2 or foam is recommended.

**Special Fire Fighting Instructions:** Wear a self contained breathing apparatus with a full face-piece operated in the positive pressure demand mode with chemical resistant personal protective equipment.

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**Section 6: ACCIDENTAL RELEASE MEASURES**

Stop all leaks. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Absorb spill with inert material (e.g. dry sand, earth). Eliminate all ignition sources. Prevent runoff from entering drains, sewers, streams or other bodies of water. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

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**Section 7: HANDLING AND STORAGE**

Follow all MSDS/label precautions even after container is emptied because they may contain product residues. Use with adequate ventilation. Do not get in eyes, on skin or on clothing. Store in a cool, dry place. Keep container closed when not in use. Keep out of reach of children.

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**Section 8: EXPOSURE CONTROLS and PERSONAL PROTECTION**

**Eye Protection:** Wear safety glasses or goggles.

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Skin Protection: To prevent repeated or prolonged contact, wear impervious gloves (made from rubber, nitrile or neoprene), clothing and boots.

Respiratory Protection: When respiratory protection is required, use an organic vapor cartridge. A respiratory program that meets OSHA's 29 CFR 1910.34 & ANSI Z88.2 requirements must be followed.

Engineering Controls: Good general ventilation required.

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**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance and Odor: Off-white emulsion with pleasant fragrance  
pH Concentrate: 8.5  
Solubility in Water: Complete  
Vapor Pressure [mmHg]: n/e  
Evaporation Rate (Butyl Acetate=1): n/e  
Vapor Density [Air=1]: n/e  
Specific Gravity [H2O=1]: 0.96  
Boiling Point: > 212 F

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**Section 10: REACTIVITY**

Stability: Stable  
Hazardous Polymerization: Will not occur  
Conditions to avoid: High temperature  
Hazardous Decomposition Products: CO, CO2  
Incompatibility: Acids and strong oxidizers

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**Section 11: TOXICOLOGICAL INFORMATION**

No data.

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**Section 12: ECOLOGICAL INFORMATION**

No data.

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**Section 13: DISPOSAL CONSIDERATIONS**

Waste Disposal Method:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

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**Section 14: TRANSPORTATION INFORMATION**

D.O.T. Shipping Name / Class:

Not regulated.

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**Section 15: REGULATORY INFORMATION**

U.S. Federal Regulations:

TSCA (Toxic Substances Control Act): The intentional ingredients of product are listed.

MSDS Number:

Title III Section 311/312 Hazardous Categories - 40 CFR 370.2:

ACUTE (X) Chronic (X) Fire (X) Pressure ( ) Reactive ( ) Not Applicable ( )

(1) Title III Section 302/304 Extremely Hazardous Substances - 40 CFR 355 Appendix A

(2) Title III Section 313 Toxic Chemicals - 40 CFR 372.65

If indicated under Section 2 of this MSDS, this product contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right to Know Act of 1986. This information must be included in all MSDS that are copied and distributed for this material.

RCRA Status: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. If this product becomes a hazardous waste it would be assigned RCRA Code(s)  
None

State and Local Regulations: Certain states maintain their own ingredient lists which differ slightly from the Federal standards. If indicated under Section 2 of this MSDS, states listed below may have regulations on ingredients contained in this product. Check with your state for any additional regulations.  
(3) California proposition 65 (Safe Drinking Water & Toxic Enforcement Act of 1986)  
(4) Massachusetts (Hazardous Substance Disclosure by Employers)

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**Section 16: OTHER INFORMATION**

This information was compiled from current manufacturer's MSDS's of the component parts of the product.

Disclaimer: The Manufacturer believes that the information contained in the Material Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.