

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE AND PREPARATION

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Emergency Number: 651-430-2270

**Product Name: Boom Cleaning
and Prewash Towels**

Chemical Description: Water/Solvent Emulsion
Product Use: Prepackaged Cleaning Preparation
Date Reviewed: 16 November 2007
Reviewed By: S. H. Dahlke

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS #</u>	<u>Weight %</u>
n-Methyl-2 pyrrolidone	872-50-4	< 25 (<2 gms/pack)
Citrus Terpenes	94266-47-4	< 25 (<2 gms/pack)

3. HAZARDS IDENTIFICATION

NFPA Ratings:

Health:	2
Fire:	1
Reactivity:	0

Emergency Overview: CAUTION: Combustible. Keep away from fire and flame. Use with adequate ventilation. Do not ingest. Avoid contact with skin. In case of eye contact, flush eyes with water. Keep out of reach of children.

4. FIRST AID MEASURES

Eye Contact: If eye irritation from exposure to vapors develops, move to fresh air. Flush eyes with clean water. If irritation persists, seek medical attention. For direct eye contact, flush with large quantity of water for 15 minutes. Seek medical attention.

Skin Contact: Remove contaminated clothing; flush skin thoroughly with water. If irritation occurs, seek medical attention.

Inhalation (Breathing): If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention. If breathing is difficult, provide oxygen. If not breathing, give artificial respiration. Seek immediate medical attention.

Ingestion (Swallowing): Dilute with water and induce vomiting. Do not give fluids or induce vomiting if victim is unconscious or having convulsions. If victim is drowsy or unconscious, place on the left side with head down. Do not leave victim unattended. Seek medical attention.

5. FIRE-FIGHTING MEASURES

Flash Point: 82°C (PMCC)
Flammable Limits: Not Available
Autoignition Temperature: Not Available
Hazardous Combustion Products: Burning generates CO, CO₂ and smoke. Smoke may be acrid and fumes irritating.
Extinguishing Media: Carbon Dioxide, Dry Chemical or Foam
Special Precautions: Towelettes can ignite. If burning, smother or isolate from other flammable materials.
Unusual Hazards: If large quantities of cartoned towelettes are ignited, treat as petroleum solvent fire.

6. ACCIDENTAL RELEASE MEASURES

No spill hazard with saturated towel package.

7. HANDLING AND STORAGE

Keep boxes containing solvent wipes closed. Keep towelettes cool, dry, and away from sources of ignition. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. Use good personal hygiene practice. All towelettes should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection:	Normal ventilation adequate. If exposure exceeds recommended limits, respirator protection is recommended. Use a respirator or gas mask with cartridges for organic vapors (NIOSH approved) or use supplied air equipment.
Protective Gloves:	The use of impermeable gloves (butyl rubber) is recommended to prevent drying and possible irritation.
Eye Protection:	Eye protection is recommended, especially if the material is used in ways where it could splash in the eyes..
Other Protective Equipment:	It is suggested that a source of clean water be available in work area for flushing eyes and skin. Impervious clothing should be worn as needed.
Exposure Limits and Recommendations:	500 ppm TLV is suggested by the manufacturer for Boom Prewash. TLV values for components have not been determined by OSHA/ACGIH.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Milky-white liquid.
Odor Threshold:	Not Available
Vapor Density (Air = 1):	Not Available
Specific Gravity (H₂O = 1):	1.0
Solubility in Water:	90% to complete
VOC Content:	466 gm/L
Boiling Point:	~100°C Initial
Freezing Point:	<0°C
Evaporation Rate:	<.1 (n-butyl acetate = 1)
Vapor Pressure:	<1mm Hg @ 20°C
Coefficient of Water/Oil Distribution:	Not Available
pH:	Neutral
Percent Volatiles (Weight):	98%

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	Avoid heat, flame, sources of ignition.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition Products:	Carbon dioxide, carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Eye Contact:	Direct eye contact with vapors may cause eye irritation. This irritation is minimal and expected to be transient.
Skin Contact:	Prolonged or repeated skin exposure can remove oils, causing redness, drying and cracking. Persons with pre-existing skin disorders may be more susceptible to skin

	irritation from this material.
Irritation and Sensitization Potential:	This product may irritate skin. It is not a sensitizer.
Inhalation (Breathing):	Concentrated solvent vapors may cause irritation of the nose and throat. Prolonged exposure to excessively high vapor concentrations can result in central nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue). Persons with impaired lung function may experience additional breathing difficulties due to the irritant properties of this material.
Ingestion (Swallowing):	Ingestion of large quantities may cause irritation of the digestive tract, or nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue).
Aspiration Hazard:	Solvent content can enter lungs during swallowing or vomiting and cause aspiration pneumonitis.
Oral Toxicity:	LD ₅₀ (oral rat) > 5000 mg/kg for terpene LD ₅₀ (oral rat) 4150 mg/kg for n-methyl-2-pyrrolidone-
Chronic Exposure:	Not Available.
Carcinogenic Status:	This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC, or OSHA, nor have any of its components.
Reproductive Toxicity:	Not Available
Mutagenicity:	Not Available
Teratogenicity:	Not Available
Toxicologically Synergistic Products:	Not Available

12. ECOLOGICAL INFORMATION

Mobility:	No information available.
Bioaccumulation:	No information available.
Ecotoxicity:	No information available.
Other:	Zero ozone depletion potential.

13. DISPOSAL CONSIDERATIONS

Dispose of product in accordance with national and local regulations.

14. TRANSPORTATION INFORMATION

Transport Canada-Product Identification Number	Not Regulated
UN Number:	Not Listed
Hazard Warning Label:	Not Applicable

15. REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS Classification	B3
Canadian DSL	All ingredients listed.
United States TSCA	All ingredients listed.

16. OTHER INFORMATION

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.