

FreedomTuff 4100 WB

MATERIAL SAFETY DATA

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SECTION I - NAME

Product Name: **FreedomTuff 4100 WB**
Manufactured For: **Freedom Chemical Corporation**
12026 Centralia Rd. Suite C
Hawaiian Gardens, CA 90716

FOR CHEMICAL Spill, leak, fire, exposure, or EMERGENCY accident, call 24 hours CHEMTREC:
800.424.9300

TSCA Inventory: All components of this product are included, or are exempt from inclusion, in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

Canadian DSL: All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List (DSL).

SECTION II - HAZARDOUS INGREDIENTS

Hazardous Components:	CAS#	% WEIGHT	ACGIH TLV	OSHA PEL % by Wgt
N-methyl-2-pyrrolidone	872-50-4	1-10%	Not Determined	Not Determined

SECTION III - HAZARDS IDENTIFICATION

Emergency Overview:

Routes of Entry: Route Entry Risk

Inhalation	Possible
Ingestion	Possible
Skin Contact	Possible
Eye Contact	Possible

Potential Health Effects: Irritating to skin and eyes.

Inhalation-	Not expected to be toxic by inhalation.
Ingestion-	Harmful if swallowed.
Skin Contact-	No significant adverse effects to health.
Eye Contact-	Cause irritation to the eye.

Carcinogenicity:

Product is not known or reported to be carcinogenic.

OSHA: No data **ACGIH:** No data **NTP:** No data **IARC:** No data
Other:

SECTION IV - FIRST AID MEASURES

Eye Contact: Immediately flush with plenty of water for at least 15 minutes. If redness, itching, or a burning sensation develops, seek medical attention immediately.

Skin Contact: Remove from skin immediately. Rinse with clean water for 20-30 minutes. Use soapy water if needed. Seek medical attention if irritation develops.

Ingestion: Do NOT induce vomiting! Seek medical attention immediately.

Inhalation: Move victim to fresh air immediately. If irritation develops, seek medical attention.

SECTION V - FIRE FIGHTING MEASURES

Flammable Limits: Not determined

Flash Point, (Method Used): >200° Fahrenheit (Pensky Marten Closed)

Autoignition Temperature:

NFPA Hazard Rating:	Hazard Scale:	Protective Equipment
Health:	0=LEAST	A=SAFETY GLASSES
Flammability:	1=SLIGHT	B=SAFETY GLASSES, GLOVES
Reactivity:	2=MODERATE	C=SAFETY GLASSES, GLOVES AND APRON
Other:	3=HIGH	
	4=EXTREME	

HMIS Hazard Rating:

Health: 1

Flammability: 0

Reactivity: 0

Protection: A

Extinguishing Media: Foam/Carbon dioxide/Dry Chemical/Water fog.

Special Fire Fighting Procedures: Remove all ignition sources. Wear self-contained breathing apparatus and complete personal protective equipment when entering confined areas where potential for exposure to vapors or products exist.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Avoid contact with material. Persons not wearing appropriate protective equipment should be excluded until spill is cleaned up. Stop spill at source, pump liquid to salvage container. Remaining liquid may be taken up on clay, diatomaceous earth, or other absorbent. Prevent product from entering drains. Do not flush into sanitary sewer system.

SECTION VII - HANDLING and STORAGE

Handling & Storage Precautions: Prevent all skin and eye contact. Avoid breathing vapors. Re-seal partially used containers. Wash with soap and water before eating or drinking.

SECTION VIII – EXPOSURE CONTROL/PERSONAL PROTECTION

Ventilation: Adequate ventilation required, especially in confined areas.

Respiratory Protection: Respiratory protection not normally needed since volatility and toxicity are low. A NIOSH/MSHA respirator is acceptable if desired.

Eye Protection: Chemical tight goggles and full face shield if splashing is possible.

Skin Protection: Coveralls and impervious foot covering is recommended.

Other Protective Clothing or Equipment: Use impervious gloves.

Work/ Hygienic Practices: Good air flow in working area. Eyewash station and safety shower should be available. Gloves and respiratory equipment should be worn at all times.

SECTION IX – PHYSICAL and CHEMICAL PROPERTIES

Appearance: Pigmented Paint

Odor: Characteristic

Physical State: Liquid

Boiling Point: 100 C (212 F)

Melting Point: NA

Freezing Point: < 0 C (32 F)

Vapor Pressure (mmHg): 17

Vapor Density (Air=1): No Data

Specific Gravity (Water=1): 1.14

Evaporation Rate (Butyl Acetate=1): No Data

Solubility in Water: completely miscible

Percent Solids by Weight: 40 - 45%

Percent Volatile (grams/liter): NA

Volatile Organic Compounds (VOC) (grams/liter): <100

SECTION X – STABILITY and REACTIVITY

Stability: Stable at normal conditions.

Hazardous Polymerization: Will not occur.

Conditions to Avoid (Stability): Avoid open flame, sparks and strong oxidizing agents and reducing agents. Replace outage with inert dry nitrogen.

Incompatibility (Materials to Avoid): Avoid acid, base (alkalis, ammonia) and oxidizing agents.

Danger of explosion: Product does not present an explosion hazard.

Hazardous Decomposition or Byproducts: No decomposition will occur.

SECTION XI – TOXICOLOGICAL INFORMATION

Toxicological Information Acute Toxicity):

ORAL LD50: 3600 - 7900 mg/kg (rats)

DERMAL LD50: > 5,000 mg/kg (rats)

INHALATION LC50: >5.1 mg/l, 4 h (rabbit)

Skin Irritation: rabbit, Draize, slightly irritating

Eye Irritation: rabbit, moderately irritating

Sensitization: dermal: non-sensitizer

Carcinogenicity: Rat, inhalation, 2 years, negative

Product is a blend of material that has been shown to be Ames Negative (non mutogenic)

SECTION XII – ECOLOGICAL INFORMATION

Ecological Information: No Data

SECTION XIII – DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of according to current local, state, and federal regulations.

RCRA Hazard Class: Non-Regulated

SECTION XIV – TRANSPORT INFORMATION

U.S. Department of Transportation

Non-Regulated

Water Transportation

Non-Regulated

Air Transportation

Non-Regulated

Other Agencies:

SECTION XV – REGULATORY INFORMATION

U.S. Federal Regulations

TSCA (Toxic Substance Control Act): All ingredients are listed on the TSCA Chemical Substance Inventory.

CERCLA (Comprehensive Response Compensation and Liability Act): CERCLA section 103(a) specifically requires the person in charge of a vessel or facility to report immediately to the National Response Center (NRC) a release of a hazardous substance whose amount equals or exceeds the assigned RQ. The following hazardous substances are contained in this product: None

SARA Title III (Superfund Amendments and Reauthorization Act): This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

311/312 Hazard Categories: None of the ingredients are listed.

313 Reportable Ingredients: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

872-50-4 N-methyl-2-pyrrolidone

State Regulations: California Proposition 65. The chemical(s) noted below and contained in this product are known to the state of California to cause cancer, birth defects or other reproductive harm. Unless otherwise specified in Section 2 of this MSDS, these chemicals are present at <0.1%:

872-50-4 N-methyl-2-pyrrolidone

SECTION XVI – OTHER INFORMATION

Other Information:

Preparation Information:

Disclaimer: This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever expressly or implied warrants, states, or intends said information to have any application, use or viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.