

MATERIAL SAFETY DATA SHEET

N/A = Not Applicable

(Prepared According To 29 CFR 1910.1200)

Effective Date: 12/09

SECTION 1 - PRODUCT IDENTIFICATION

Product Name: North Woods® Lightning Plus II
Generic Name: Contact cleaner.
Suppliers Name: SUPERIOR CHEMICAL CORP.
Suppliers Address: 1331 Wisconsin Avenue, Sheboygan, WI 53081
Phone: 800-242-7694
EMERGENCY PHONE: 800-535-5053

Chemical Family: N/A
Formula: N/A

NPCA Hazardous Materials Identification System

Health	2
Flammability	0
Reactivity	1
Maximum Personal Protection	B

SECTION 2 - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS NO.	WT.%	PEL	TWA-TLV	STEL-TLV	CARCINOGEN
*3,3 Dichloro-1,1,1,2,2-pentafluoropropane	422-56-0	< 40	N / E	N / E	N / E	No
*1,3 Dichloro-1,1,2,2,3-pentafluoropropane	507-55-1	> 20	N / E	N / E	N / E	No

*Subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 & 40 CFR372.

SECTION 3 - PHYSICAL DATA

Boiling Range (°F): ~ 129°F
Vapor Pressure: 45
% Volatile: 100%
Solubility in Water: 0.033% wt@ 25°C
Physical Description: Clear, colorless liquid, faint Ether-like Odor
Specific Gravity: 1.55
Vapor Density: 7.0 @ 77°F
pH: N/A
Evaporation Rate: <1
VOC's: 0 lbs/gal.

SECTION 4 - FIRE & EXPLOSION HAZARD DATA

Flash Point (method used): Will not burn.
Upper Explosive Limit: N/A
Lower Explosive Limit: N/A
Extinguishing Media: Foam, CO2, Dry Media
Special Fire Fighting Procedures: Wear self contained breathing apparatus & protective gear.
Unusual Fire & Explosion Hazards: Exposure to temp. above 120°F may cause bursting.

SECTION 5 - REACTIVITY DATA

Stability: Stable
Incompatibility (materials to avoid): Incompatible with alkali or alkaline earth metals.
Hazardous Decomposition Products: Hydrofluoric acid and possibly Carbonyl Fluoride.

SECTION 6 - STORAGE & HANDLING INFO

Precautions To Be Taken In Handling & Storage:
Keep out of reach of children. For institutional and industrial use only.
Store in a cool, dry area away from heat or open flame. Do not store at temperatures above 120°F.

SECTION 7 - HEALTH HAZARDS AND FIRST AID

Effects of Overexposure
Primary Route of Entry:
Skin: Immediate effects of overexposure may include: Frostbite if liquid or vapor contact is made with the skin.
Eyes: Frostbite like effects may occur if the liquid or escaping vapors contact the eyes.
Inhalation: High concentrations may cause heart irregularities, unconsciousness, or death. Intentional misuse or deliberate inhalation may cause death without warning.
Ingestion: Not considered a potential route of exposure.

First Aid Procedures:
Skin: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothes and shoes. Call a physician. Treat for frostbite if necessary by gently warming affected area. Wash contaminated clothes before reuse.
Eyes: Immediately flush with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. Call a physician.
Inhalation: If high concentrations are inhaled, immediately remove to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Ingestion: Not considered a potential route of exposure.

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: None needed for proper use in accordance with label directions.
Protective Gloves: Impervious gloves if hand contact will be made.
Other Protective Equipment: N/A

Ventilation: General ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.
Eyes: If splash or spray back is anticipated, wear safety glasses or chemical proof goggles.

SECTION 9 - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:
Mop up or otherwise absorb and hold for disposal.

Waste disposal method:
Any method in accordance with applicable laws.

Notice to reader: To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All material may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. **FOR FURTHER INFORMATION OR TO DOWNLOAD ADDITIONAL MSDS GO TO www.northwoodstm.com

** The health hazards given on this Material Safety Data Sheet apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of overexposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions or ordinary use.