MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT IDENTIFICATION
Product Name: LIMONENE CITRUS NATURAL SOLVENT CLEANER (HD551)
Chemical Family: CLEANING COMPOUND
Supplier’s Name: Banner Chemical Corp.
Proper Shipping Name: CLEANING COMPOUND
Supplier’s Address: 111 Hill St.
Orange, N.J. 07050
DOT Shipping Hazard: N/A
DOT Labels Required: N/A
EMERGENCY TELEPHONE NUMBER 973/676-2900
HMIS RATING(0-4): HEALTH: 1 FIRE: 0 REACTIVITY: 0

SECTION 2 - HAZARDOUS INGREDIENTS
CHEMICAL NAME
D-Limonene
CAS NO. 5989-27-5
% (optional) 5
TLV(ACGIH) None known

*This toxic chemical is subject to reporting requirements of Sec. 313-SARA Title III-40CFR. Part 372.

SECTION 3 - PHYSICAL DATA
BOILING POINT: 210°F
FLASH POINT: > 150°F
VAPOR PRESSURE(mmHg @ 20°C): < 3
FLAMMABLE LIMITS: Not established
VAPOR DENSITY(air=1): 4.7
EXTINGUISHING MEDIA: Use media proper to primary cause of fire
SPECIFIC GRAVITY: 0.9-0.95
SPECIAL FIREFIGHTING PROCEDURES: Use approved self-contained breathing apparatus.

PHYSICAL DESCRIPTION: Clear/pale yellow thin liquid; mild citrus aroma.
P pH: 7.5-9.0
SOLUBILITY IN WATER: 90-95%
EVAPORATION RATE: < 1
% VOLATILE BY VOLUME: 95

SECTION 4 - FIRE and EXPLOSION DATA
UNUSUAL FIRE & EXPLOSION HAZARD: Toxic vapors may be released.

SECTION 5 - HEALTH HAZARD DATA
THRESHOLD LIMIT VALUE: Not established; low order of toxicity.
EFFECTS OF OVEREXPOSURE: Moderately alkaline; EYE: Irritation, redness. SKIN: Redness, drying. INHALATION: Prolonged breathing may cause dizziness and/or headaches. INGESTION: Probable mucous damage.
EMERGENCY & FIRST AID PROCEDURES: EYES: Flush with copious amount of water for at least 15 min. While lifting eyelids. SKIN: Remove contaminated clothing & wash skin with soap & water. INHALATION: Remove to fresh air. INGESTION: Immediately give large amount of water. Do not induce vomiting. If vomiting occurs, give more water. Never give anything by mouth to an unconscious person. In all cases consult a physician.

SECTION 6 - REACTIVITY DATA
STABILITY: Stable under normal conditions
INCOMPATIBILITY: Heat, spark, open flame.
HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO2, smoke and other unidentified organic compounds.
HAZARDOUS POLYMERIZATION: Will not occur

SECTION 7 - SPILL or LEAK PROCEDURES
SPILLAGE: Contain spill and absorb with Ban-dri, earth, sand or similar inert material
WASTE DISPOSAL METHOD: In a manner consistent with federal, state and local regulations.

SECTION 8 - SPECIAL PROTECTION INFORMATION
RESPIRATORY PROTECTION: Can use N-IOSH respirator
VENTILATION: Local exhaust sufficient
GLOVES: Rubber or plastic coated should be used
EYE PROTECTION: Safety glasses or shield if splashing expected
OTHER PROTECTIVE EQUIPMENT: Clothing cover can be used

SECTION 9 - SPECIAL PRECAUTIONS
Do not get in eyes or on skin. Wash thoroughly after handling. Use with adequate ventilation. Store away from other chemicals and out of the reach of children. Store in a closed container away from fire and extreme heat. Keep from freezing. Use protective equipment.

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