

# MATERIAL SAFETY DATA SHEET

Total Solutions  
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GENERAL INFORMATION NUMBER: (414) 354-6417  
CHEMTREC: (800) 424-9300

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## I - Product Identification

### dB Solvent HF-165

PRODUCT CODE: 0387

CHEMICAL FORMULATION: High flash solvent based cleaner/degreaser.

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 0

HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

## II - Hazardous Ingredients

Values reported as TWA unless noted.

SUBSTANCE	APPROX %	OSHA PEL	ACGIH TLV	EPA 40 CFR:			CAS #
				302	355	372	
d-Limonene	10.0-20.0	N/E	N/E	N	N	N	5989-27-5

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling level STEL: Short Term Exposure Limit  
N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No  
302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).  
355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).  
372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

## III - Physical Data

BOILING POINT (°F): N/D SPECIFIC GRAVITY (WATER = 1): 0.88  
VAPOR PRESSURE (mm Hg): <1.0 @ 20°C VOC CONTENT (% by weight): 10.0-20.0  
VAPOR DENSITY (AIR = 1): N/D EVAPORATION RATE (WATER = 1): >1.0  
SOLUBILITY IN WATER: Insoluble pH: N/A  
APPEARANCE AND ODOR: Clear, colorless liquid; citrus-petroleum distillate odor.

## IV - Fire and Explosion Hazard Data

FLASH POINT (°F): 165 (TEST METHOD): Closed cup  
FLAMMABLE LIMITS IN AIR (VOLUME %) UPPER: N/D LOWER: N/D  
EXTINGUISHING MEDIA: Foam, carbon dioxide, dry chemical.  
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should be equipped with full protective gear including self-contained breathing apparatus. Use water spray to cool fire-exposed containers.  
UNUSUAL FIRE AND EXPLOSION HAZARD: Protect from source of ignition. Solvent vapors may cause flashback.

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**V - Reactivity Data**

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**STABILITY:** Stable

**INCOMPATIBILITY:** Strong oxidizing agents.

**CONDITIONS TO AVOID:** Heat or open flame

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce oxides of carbon.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** None

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**VI - Health Hazard Data**

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**ROUTES OF ENTRY**    **INHALATION:** X        **EYE CONTACT:** X        **SKIN CONTACT:** X        **INGESTION:** X

**INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS:** None.

**EFFECTS OF OVEREXPOSURE**

**IF IN EYES:** Moderate to severe irritation, redness and tearing.

**IF ON SKIN:** Irritation, chapping, dermatitis with prolonged or repeated exposure. Contains a possible sensitizer.

**IF SWALLOWED:** Gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration may be a hazard.

**IF INHALED:** Respiratory tract irritation, dizziness, weakness, headache, nausea, and unconsciousness.

**EMERGENCY AND FIRST AID PROCEDURES**

**IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention.

**IF ON SKIN:** Remove contaminated clothing and launder separately before re-use. Wash with soap and water.

**IF SWALLOWED:** Contact physician or poison control center immediately. Do not induce vomiting.

**IF INHALED:** Remove person to fresh air. Administer artificial respiration if person has stopped breathing. Obtain medical assistance.

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**VII - Spill or Leak Protection**

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**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Ventilate area and remove all sources of ignition. Contain spill. Soak up spilled material with inert absorbent material and place in a properly marked closed container for proper disposal.

**WASTE DISPOSAL METHOD:** Consult local environmental authorities.

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**VIII - Special Protection Information**

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**RESPIRATORY PROTECTION:** Use with adequate ventilation.

**VENTILATION**

**LOCAL:** Recommended

**MECHANICAL:** Not required

**PROTECTIVE GLOVES:** Chemical resistant.

**EYE PROTECTION:** Safety glasses and/or face shield.

**OTHER PROTECTIVE EQUIPMENT:** Eye wash station.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry place, away from heat or open flame.

Wash thoroughly after handling. Keep container tightly closed when not in use. Bound and ground during liquid transfer

**OTHER PRECAUTIONS:** Keep out of reach of children. Do not cut or weld on empty container as it may contain combustible residues.

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**IX - Transportation Information (ground transportation only)**

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**DOT ID NUMBER:** None

**DOT PROPER SHIPPING NAME:** None

**DOT CLASS:** None

**DOT PACKING GROUP:** None

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

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