

# MATERIAL SAFETY DATA SHEET

Used to comply with OSHA's Hazard Communication Standard 29CFR1910.1200

NFPA (0=Insignificant, 1=Slight, 2=Moderate, 3=High, 4=Extreme)  
HAZARD  
RATING Fire: 0 Reactivity: 0 Health: I Special: 0

## Section I - PRODUCT IDENTIFICATION

MFG. NAME: H & B Industries, Inc. Updated: Nov. 12, 1991  
9758 Abernathy Ave.  
Dallas, TX 75220  
EMERGENCY PHONE NUMBER: INFOTRAC(800)535-5053  
PRODUCT NAME: HB-45 Crunch

## Section II - HAZARDOUS COMPONENTS

	<u>CAS#</u>	<u>TLV(ppm2)</u>
Ammonium Hydroxide	1336-21-6	50
Isobutane	75-28-5	1000
Ethylene Glycol Monbutyl Ether	111-76-2	50

## Section III - PHYSICAL DATA

Boiling Point: NA Specific Gravity (MO = 1): 1.0  
Vapor Pressure: Max. 60 Vapor Density (Air = 1): NA  
Solubility in Water: Soluble Evaporation Rate(water = 1): NE %  
Volatile by Volume: 95  
Appearance & Odor: White foam, mint odor.

## Section IV - FIRE & EXPLOSION HAZARD DATA

Flash Point; Non-flammable. Flammable limits: *LEL*: NA *UEL*:NA  
Extinguishing Media: Foam, dry chemical, carbon dioxide and water, aerosol is non-flammable.  
Special Fire Fighting Procedures: Self-contained breathing apparatus.  
Unusual Fire and Explosion Hazards: Do not expose aerosols to temperatures above 130°F or the container may explode.

## Section V - REACTIVITY DATA

Stability: Stable  
Incompatibility: Copper, alkali metals.  
Conditions to Avoid: Sparks, open flame, heat, welding arcs.  
Hazardous Decomposition or Byproducts: CO

## Section VI HEALTH HAZARD DATA

OSHA Permissible Exposure Limit: 661 ppm estimated  
Signs & Symptoms of Overexposure: INHALATION: Dizziness, nausea, headache, signs of anesthesia and possible unconsciousness or death if vapor conc. exceeds TIN. SKIN: Mild irritation. INGESTION: Nausea. EYES: Mild irritation.

MATERIAL SAFETY DATA SHEET (SUBSTITUTES FOR OSHA FORM 174): May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

PRODUCT NUMBER: HS-45

IDENTITY: CRUNCH Organic Engine Degreaser

Revision Date: 5/06/03

### Section I

Manufacturer's Name: H & B Industries, Inc.  
Address: 9758 Abernathy Ave.  
Dallas, TX 75220

Telephone Number:  
Emergency:  
800/535/5051  
Information:  
800/466/0855

HMIS CODES: REACTIVITY: 1 FLAMMABILITY: I HEALTH: 1 PERSONAL PROTECT: 1

Section II: HAZAROUS INGREDIENTS/IDENTITY INFORMATION (All of the ingredients contained in this product are listed on the TSCA inventory.)

Name	Cas No.	OSHA PEL	ACGIH TLV	OTHER LIM %
D-LIMONENE	5989-27-5	N/A	N/A	N/A
ISOPARAFINIC HYDROCARBON	64742-47-8	300 PPM	300 PPM	
ISOPROPYL ALCOHOL	67-63-0	400 PPM	400 PPM	N/A
L.P.G.	68476-8S-7	1000 PPM	1000 PPM	N/A
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

### Section III: PHYSICAL, /CHEMICAL CHARACTERISTICS

Boiling Point: 362 Specific Gravity (water-1) 0.90  
Vapor Pressure (mm Kg) 1 Melting Point: N/A  
Vapor Density (AIR=1) 1 Evaporation Rate: .04  
Solubility in Water: 1001 (Butyl Acetate-, l, ?  
Appearance and, Odor: BROWN JELLED LIQUID, AROMATIC SOLVENT ODOR

### Section IV: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 150 F TCC Flammable Limits: LEL: N/A UEL: N/A  
Extinguishing media: CO2,  
Special Fire Fighting Procedures: NONE

Unusual. Fire and Explosion Hazards: CONTAINS UNDER PRESSURE. EXPOSURE TO TEMPERATURES ABOVE 120 F MAY CAUSE BURSTING.