

MATERIAL SAFETY DATA SHEET

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(8:30-5:00 P.M. CST)

SECTION 1 PRODUCT IDENTIFICATION
PRODUCT NAME: BAK-KLENE ZT ALL PURPOSE
PRODUCT CLASS: AEROSOL COOKING OIL
DATE PREPARED: 07/09
ITEM #:

<u>HIMS RATING</u>	
HEALTH	1
FLAMMABILITY	4
REACTIVITY	1
P.P. EQUIPMENT	0

SECTION 2 HAZARDOUS INGREDIENTS

<u>INGREDIENT</u>	<u>CAS#</u>	<u>ACGIH</u>	<u>OSHA</u>	<u>OTHER</u>	<u>% OPTIONAL</u>
CANOLA OIL		NO LIMIT			
MINERAL OIL		NO LIMIT			
SUNFLOWER LECITHIN		NO LIMIT			
FLAVORING		NO LIMIT			
WHEAT STARCH		NO LIMIT			
CAPRIC/CAPRYLLIC TRIGLYCERIDES		NO LIMIT			
PROPANE/ISOBUTANE	68476-85-7	900 PPM			10-20%

THIS MSDS WAS PREPARED USING THE GUIDELINES SET BY 49 CFR 1910.1200 AND SARA III.

SECTION 3A PHYSICAL DATA: CONTENTS WITHOUT PROPELLANT

FLASH POINT: >500°F **SPECIFIC GRAVITY:** 0.95 @ 25°C
EVAPORATION RATE: SLOWER THAN B-ACETATE **VAPOR DENSITY (AIR=1):** N/A
SOLUBILITY IN WATER: NEGLIGIBLE **APPEARANCE:** LIQUID UNDER PRESSURE

SECTION 3B PHYSICAL DATA: CONTENTS WITH PROPELLANT

VAPOR PRESSURE @ 70°F: 70+/- 5 PSIG **VAPOR PRESSURE @ 130°F:** 100 +/- 10 PSIG
FLAMMABILITY CLASS: FLAMMABLE **FLAME EXTENSION @ 70°F:** > 18 INCHES
DRUM TEST: NEGATIVE **FLAME BACK:** NONE
PERCENT VOLATILE: 10-20%

SECTION 4 FIRE AND EXPLOSION DATA

FLASH POINT: -156°F PROPELLANT > 500°F CONCENTRATE
EXPLOSIVE LIMITS LOWER: 1.8 % **UPPER:** 9.5 %
EXTINGUISHING MEDIA: WATER FOG, STANDARD FOAM, CO₂, DRY CHEMICAL, HALON
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON, NITROGEN

FIRE FIGHTING PROCEDURES AND EXPLOSION HAZARDS:

WEAR SELF CONTAINED BREATHING APPARATUS WITH A FULL FACE PIECE OPERATED IN A POSITIVE PRESSURE MODE. WATER FOG MAY BE USED TO HELP COOL CONTAINERS TO HELP MINIMIZE PRESSURE BUILD-UP. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND TO SOURCES OF IGNITION. REPORTS HAVE BEEN MADE OF IGNITION FROM PILOT LIGHTS, HEATERS, ETC AFTER VAPORS HAVE BEEN MOVED BY VENTILATING FANS. EXPLODING CANS MAY TRAVEL GREAT DISTANCES SPEWING BURNING MATERIALS. EXPOSURE TO TEMPERATURES OVER 120°F MAY CAUSE CANS TO BURST.

SECTION 5 REACTIVITY DATA

STABILITY: NORMALLY STABLE
INCOMPATIBILITY: STRONG OXIDIZERS, HEAT AND IGNITION SOURCES
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITION TO AVOID: DO NOT STORE ABOVE 120°F. DO NOT STORE IN DIRECT SUNLIGHT

SECTION 6 HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVELS: 900 PPM PROPELLANT

ACUTE EFFECTS

EYES: CAN CAUSE PAIN AND SLIGHT CORNEAL INJURY. VAPORS IRRITATE EYES.

SKIN: PROLONGED OR REPEATED CONTACT MAY CAUSE IRRITATION, DEFATTING.

BREATHING: MILDLY ANESTHETIC, NARCOTIC EFFECTS MAY BE SEEN IN THE 5,000-10,000 PPM RANGE.

CHRONIC EFFECTS

TARGET ORGAN/SYSTEMATIC EFFECTS:

EXCESSIVE EXPOSURE CAN CAUSE RESPIRATORY IRRITATION, LIVER OR KIDNEY DAMAGE.

FIRST AID

EYES: IRRIGATE WITH FLOWING WATER AT LEAST 10 MINUTES. HOLD LIDS OPEN AS IT HELPS PREVENT SCRATCHING AND MINIMIZE IRRITATION. SEEK MEDICAL ATTENTION AS MATERIAL MAY BECOME IMBEDDED.

SKIN: WASH WITH SOAP AND WATER. CONSULT A PHYSICIAN IF IRRITATION PERSISTS.

INGESTION: DO NOT INDUCE VOMITING. CALL A PHYSICIAN AND/OR POISON CONTROL CENTER IMMEDIATELY.

INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE MOUTH TO MOUTH RESUSCITATION. IF BREATHING IS DIFFICULT GIVE OXYGEN. CALL A PHYSICIAN AS EXCESSIVE EXPOSURE MAY CAUSE IRRITATION TO THE UPPER RESPIRATORY SYSTEM.

SECTION 7 PRECAUTIONS FOR STORAGE AND DISPOSAL

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:

CLEAN WITH SOAP AND WATER, VENTILATE, EXCESSIVE CONCENTRATION OF VAPORS ARE FLAMMABLE. WASTE DISPOSAL METHODS: DO NOT PUNCTURE OR INCINERATE "EMPTY" OR FULL CANS. ONCE SPILLS OR LEAKS ARE CLEANED UP, DISPOSE OF WASTE IN ACCORDANCE WITH GOVERNMENTAL ORDINANCES.

SECTION 8 HANDLING PRECAUTIONS

VENTILATION: GENERAL VENTILATION SHOULD BE ADEQUATE FOR NORMAL USE. IF USING IN CONFINED AREAS USE NECESSARY MEANS OF VENTILATION TO KEEP FROM EXCEEDING THE TLV.

RESPIRATORY: IF USING IN AREAS WHERE THE TLV IS LIKELY TO BE EXCEEDED USE A NIOSH/MSA APPROVED RESPIRATOR.

SKIN: USE CHEMICAL RESISTANT GLOVES IF THE POSSIBILITY OF PROLONGED CONTACT EXISTS.

STORAGE: STORE BELOW 120°F. AVOID DIRECT SOURCES OF HEAT AND IGNITION. DO NOT USE DEFORMED OR DAMAGED CANS. KEEP OUT OF THE REACH OF CHILDREN. CONSULT LOCAL FIRE MARSHALL AND INSURANCE REPRESENTATIVES FOR SPECIFIC STORAGE REQUIREMENTS IN YOUR AREA.

SECTION 9 TRANSPORTATION AND REGULATORY INFORMATION

A. GROUND

PROPER SHIPPING NAME: CONSUMER COMMODITY

CONTAINER SIZE: 6-14 OZ CANS

DOT CLASSIFICATION: ORM-D

DOT MARKINGS: ORM-D

DOT HAZARD CLASS: N/A

PROPELLANT: PROPANE/ISOBUTANE

SARA III REPORTABLE QUANTITY: 25,000 LBS.

NFPA 30B WAREHOUSE CLASSIFICATION: LEVEL 1

B. AIR

PROPER SHIPPING NAME: CONSUMER COMMODITY

CONTAINER SIZE: 6-14 OZ CANS

DOT CLASSIFICATION: ORM-D-AIR

DOT LABELING/ MARKINGS: ID 8000/ORM-D-AIR

DOT HAZARD CLASS: 9.0

PROPELLANT: PROPANE/ISOBUTANE

SARA III REPORTABLE QUANTITY: 25,000 LBS

NFPA 30B WAREHOUSE CLASSIFICATION: LEVEL 1

SECTION 9 TRANSPORTATION AND REGULATORY INFORMATION (CON'T)

C. IMDG

PROPER SHIPPING NAME: AEROSOL, FLAMMABLE

CONTAINER SIZE: 6-14 OZ CANS

DOT CLASSIFICATION: FLAMMABLE LIQUID UN-1950

DOT MARKINGS: ORM-D

DOT PLACARD: LIMITED QUANTITY

DOT HAZARD CLASS: 2.0

PROPELLANT: PROPANE/ISOBUTANE

SARA III REPORTABLE QUANTITY: 25,000 LBS

NFPA 30B WAREHOUSE CLASSIFICATION: LEVEL 1

DISCLAIMER:

THE FOREGOING INFORMATION HAS BEEN COMPILED FROM SOURCES BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF THE NEED THAT THE DATA IS CORRECT, APPLICABLE AND SUITABLE TO THEIR CIRCUMSTANCES. STANDARDS CHANGE WITHOUT NOTICE; IT IS THE RESPONSIBILITY OF THE RECIPIENT TO ASSURE THAT THEIR PERSONNEL HAVE BEEN NOTIFIED OF ANY CHANGES WHICH MAY AFFECT THEM. THE DATA PROVIDED ON THE MSDS ARE NOT MEANT TO BE USED AS SPECIFICATIONS, ONLY GUIDELINE INFORMATION AS TO SAFE USE OF THE PRODUCT. USER SHOULD ALSO REFER TO OSHA, STATE AND LOCAL SAFETY LAWS BEFORE USE.

PREPARED BY: ROBERT M. SMITH, TECHNICAL DIRECTOR