

KNAPP PRODUCTS

M.S.D.S.

PRODUCT NAME "MARKS OFF"

PRODUCT NUMBER

71801

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71801

DATE

01/01/2006

Section 1. Chemical product and company identification

COMPANY KNAPP MANUFACTURING
5227 E. PINE AVE.
FRESNO, CA 93727 USA

FOR EMERGENCIES CALL: 800 255 3924

PRODUCT MARKS OFF

Section 2. Composition/information on ingredients

CHEMICAL NAME(S):

2-PROPANOL (40.9%) (OSHA PEL 400 ppm/ACGIH 400 ppm)	ALCOHOL ETHEXYLATE SURFACTANT (3.0%)
GLYCO ETHERS (54.1%)	1 - AMINO - 2 - PROPANOL/CAS# 78-90-6 (2.0%)

Section 3. Hazards identification, including emergency overview

PRIMARY ROUTES OF ENTRY: INHALATION, SKIN AND EYE CONTACT.

EYE CONTACT - LIQUID OR VAPOR CONTACT CAN CAUSE IRRITATION.

SKIN CONTACT - PROLONGED AND REPEATED CONTACT CAN CAUSE DRYNESS AND IRRITATION.

INGESTION - MAY CAUSE MARKED AND PERSISTENT NAUSEA, VOMITING AND ABDOMINAL PAIN. IF VOMITING OCCURS FOLLOWING INGESTION ASPIRATION (BREATHING) OF VOMITUS INTO THE LUNGS CAN CAUSE BRONCHOPNEUMONIA OR PULMONARY EDEMA.

INHALATION - HIGH CONCENTRATIONS OF VAPOR CAN IRRITATE RESPIRATORY TRACT AND MAY CAUSE BRONCOPNEUMONIA OR PULMONARY EDEMA.

SYMPTOMS OF EXPOSURE: HEADACHE, DIZZINESS, NAUSEA, DROWSINESS, LOSS OF CONSCIOUSNESS.

Section 4. First aid measures

EYE CONTACT - FLUSH WITH WATER FOR 30 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

SKIN CONTACT - WASH WITH SOAP AND WATER. FLUSH WITH LOTS OF RUNNING WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES; DO NOT REUSE UNTIL CLEANED. IF PERSISTENT IRRITATION OCCURS GET MEDICAL ATTENTION.

INHALATION - REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

INGESTION - DO NOT GIVE LIQUIDS IF VICTIM IS UNCONSCIOUS OR VERY DROWSY. OTHERWISE, GIVE NO MORE THAN 2 GLASSES OF WATER AND INDUCE VOMITING BY GIVING 30cc (2 TABLESPOONS) SYRUP OF IPECAC. IF IPECAC IS UNAVAILABLE, GIVE 2 GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING FINGER TO BACK OF VICTIMS THROAT. KEEP VICTIMS HEAD BELOW HIPS WHILE VOMITING. GET MEDICAL ATTENTION.

Section 5. Fire fighting measures

EXTINGUISHING MEDIA: DRY CHEMICAL, ALCOHOL FOAM OR CO₂.
FLASH POINT: 53 F AUTO IGNITION TEMPERATURE: N/A
FLAMMABILITY LIMITS IN AIR % BY VOLUME: LEL – 2.0 / UEL – 12.

USE WATER SPRAY TO COOL FIRE EXPOSED SURFACES AND TO PROTECT PERSONNEL. RESPIRATORY PROTECTION REQUIRED FOR FIRE FIGHTING PERSONNEL.

Section 6. Accidental release measures

WARNING! FLAMMABLE. ELIMINATE ALL IGNITION SOURCES. HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING.

LARGE SPILLS – EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN. IF VAPOR CLOUD FORMS, WATER FOG MAY BE USED TO SUPPRESS; CONTAIN RUN-OFF. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL. PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE. DISPOSE OF FLUSH SOLUTIONS AS ABOVE.

SMALL SPILLS – TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS, SEAL TIGHTLY FOR PROPER DISPOSAL.

Section 7. Handling and storage

WARNING! FLAMMABLE LIQUID. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAMES. KEEP CONTAINERS TIGHTLY CLOSED. STORE AWAY FROM STRONG OXIDIZING AGENTS IN A COOL, DRY PLACE WITH ADEQUATE EXPLOSION-PROOF VENTILATION. GROUND EQUIPMENT TO PREVENT ACCUMULATION OF STATIC CHARGE. IF POURING OR TRANSFERRING MATERIALS, CONTAINERS MUST BE BONDED AND GROUNDED.

DO NOT WELD, USE HEAT OR DRILL ON OR NEAR CONTAINERS; EVEN EMPY CONTAINERS CAN CONTAIN EXPLOSIVE VAPORS. ALUMINUM CONTAINERS ARE NOT RECOMMENDED FOR STORAGE.

Section 8. Exposure controls/personal protection

IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORDANCE WITH 29 CFR 1910.134 USE EITHER A FULL-FACE, ATMOSPHERE-SUPPLYING RESPIRATOR OR AIR PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

USE IMPERVIOUS RUBBER GLOVES AND CHEMICAL GOGGLES. WASH CONTACTED AREAS. CHANGE CLOTHES DAILY AND WASH BEFORE REUSE.

VENTILATION – LOCAL EXHAUST. USE EXPLOSION-PROOF VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS

Section 9. Physical and chemical properties

BOILING POINT: 180 F	VAPOR PRESSURE: 33 @ 68 F	VAPOR DENSITY: 2.1
SPECIFIC GRAVITY: .79	MELTING POINT: N/A	EVAPORATION RATE: 1.4
SOLUBILITY IN WATER: 100% WATER REACTIVE: NONE		
APPEARANCE AND ODOR: CLEAR COLORLESS LIQUID WITH ALCOHOL TYPE ODOR.		

Section 10. Stability and reactivity

STABLE. AVOID HEAT, SPARKS AND OPEN FLAMES.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

Section 11. Toxicological information

NONE

Section 12. Ecological information

NONE

Section 13. Disposal considerations

PLACE IN A DISPOSAL FACILITY APPROVED UNDER RCRA REGULATIONS FOR HAZARDOUS WASTE. USE NON-LEAKING CONTAINERS, SEAL TIGHTLY AND LABEL PROPERLY.

Section 14. Transport information

CLASS 55 FOR GROUND TRANSPORTATION.

Section 15. Regulatory information

NONE

Section 16. Other information

NFPA RATING: HEALTH – 1 / FLAMMABILITY – 3 / REACTIVITY – 0

FOR MORE INFORMATION CALL:

- IN THE USA: 877 278 6630
- FAX: 559 292 0903
- ON THE WEB: www.knappproducts.com
- E-MAIL: bob@astoneusa.com