

MATERIAL SAFETY DATA SHEET

This form is regarded to be in compliance with 29 CFR Part 1910.1200

Section I: Identification

PRODUCT NAME: BOND AID

Manufacturer's Name: **CALI CHEM, Inc.,**
Address : **14271 Corporate Dr. #B**
City, State, Zip code **Garden Grove, CA 92843**
Business Telephone : **(714) 265-3740**
Emergency Telephone #: **(800) 535 – 5053 (InfoTrac)** **Revised Date: 07/01/2009**

Section II-Hazardous Ingredients

Hazardous components (Specific Chemical Identity; Common Name)

	CAS REG. NO.	OSHA PEL	ACGIH TWA	TLV STEL	%
Ethyl Acetate	141-78-6	400ppm	400ppm	200ppm	15-40
N-Butyl Acetate	123-86-4	150ppm	150ppm	200ppm	10-30
Isopropyl Alcohol	67-63-0	400ppm	400ppm	500ppm	05-20

Reactivity 1 Flammability 3 Health 1

Section III-Physical/Chemical Characteristics

Boiling point 171 degrees F **Specific Gravity (H2O=1)** 1.0
Vapor Density (AIR=1) Heavier than air **Evaporation Rate** Slower than ether
Solubility in Water 10%
Appearance and Odor Clear liquid with ester odor.

Section IV-Fire and Explosion Hazard Data

Flash Point: 45 F Method Used: TCC Flammable Limits In AIR By VOL%: Lower: 1.0 Upper: 9.0

Extinguishing Media-Chemical Foam, CO2, Alcohol Foam, Dry Chemical, cold water spray
Special Fire Fighting Procedures: Use water spray to cool container. Use self-contained breathing apparatus.

Unusual fire and explosion hazards-When exposed to heat and flame material is fire explosion hazard. It may produce toxic products, CO, CO2, & Oxides of Nitrogen.

Section V-Reactivity Data

Stability-Stable

Conditions to Avoid - Heat and source of ignition, aging, and contamination.

Incompatibility (material to avoid) - oxidizing agents, acids and bases (heat)

Hazardous decomposition of By Products - Heated materials produces NO2, CO2, and CO

Hazardous Polymerization May Occur -Will not occur

Section VI-Health Hazard Data

Route of Entry: Inhalation-Yes Skin-Yes Eyes-Yes Ingestion-Yes

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

VAPORS MAY BE IRRITATING AND CAUSE DIZZINESS, HEADACHE, NAUSEA, VOMITING AND NARCOSIS

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

BRIEF CONTACT WITH SKIN SHOULD NOT PRODUCE ANY HARMFUL EFFECTS, BUT PROLONGED CONTACT, AS FROM CLOTHING WET WITH CHEMICALS, MAY CAUSE IRRITATION. EYE CONTACT CAUSES SEVERE IRRITATION.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

MAY CAUSE TOXICOLOGICAL AND NEUROLOGICAL EFFECTS.

HEALTH HAZARDS (ACUTE AND CHRONIC)

ACUTE INGESTION CAN CAUSE HEADACHE, DROWSINESS AND UNCONSCIOUSNESS, ACUTE INHALATION OF VAPORS ARE IRRITATING TO NASAL PASSAGES AND THROAT. ACUTE REPEATED OR PROLONGED SKIN CONTACT CAN CAUSE DRYING OF THE SKIN, AND ACUTE VAPOR OR LIQUID MAY BE HARMFUL TO THE EYES.

CARCINOGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

EMPHYSEMA, ASTHMA, DERMATITIS.

EMERGENCY AND FIRST AID PROCEDURES

IF SWALLOWED CALL A PHYSICIAN/SKIN - FLUSH WITH WATER. IF INHALED REMOVE TO FRESH AIR AND CALL A PHYSICIAN, GIVE ARTIFICIAL RESPIRATION IF BREATHING IS DIFFICULT. EYES - FLUSH WITH PLENTY OF WATER AT LEAST 15 MINUTES. TREATMENT SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS AND THE CLINICAL CONDITIONS, THERE IS NO SPECIFIC ANTIDOTE.

Section VII-Transportation Information – DOT Classified

Shipping Information:

Proper Shipping Name: Flammable liquids, n.o.s.
Hazard Class: 3
ID No. (UN/NA): UN 1090
Packing Group: II

Section VIII-Precautions for Safe Handling and Use

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

WEAR SUITABLE PROTECTIVE EQUIPMENT. SPILLS SHOULD BE COLLECTED FOR DISPOSAL BY APPROPRIATE METHODS. FOR LARGE SPILLS IN EXCESS OF R.Q. REPORTABLE QUANTITIES CONTACT NATIONAL RESPONSE CENTER AT 800-424-8802

WASTE DISPOSAL METHOD

DISPOSE OF WASTE BY APPROPRIATE METHODS OR INCINERATE IN A FURNACE WHERE PERMITTED UNDER APPROPRIATE FEDERAL, STATE AND LOCAL REGULATIONS.

PRECAUTION TO BE TAKEN IN HANDLING AND STORING

STORE LARGE QUANTITIES ONLY IN BUILDINGS DESIGNED TO COMPLY WITH OSHA 1910.106. STORE IN COOL AREA.

OTHER PRECAUTIONS

KEEP CLOSURE TIGHT AND CONTAINER UPRIGHT TO PREVENT LEAKAGE. DO NOT STORE OR USE HEAT, SPARKS OR OPEN FLAME. STORE DRUM OUT OF SUN AND AWAY FROM HEAT. STORE AND USE ONLY IN WELL-VENTILATED AREAS. DRUMS OF THIS MATERIAL SHOULD BE GROUNDED WHEN POURING. NEVER USE PRESSURE TO EMPTY. DRUM IS NOT A PRESSURE VESSEL. DO NOT PUNCTURE CONTAINER OR LEAVE OPENED OR UNCOVERED. DRUMS SHOULD NOT BE WASHED OUT OR USED FOR THEIR PURPOSES. DO NOT GET IN EYES, AVOID SKIN CONTACT. HARMFUL IF INHALED. PREVENT PROLONGED OR REPEATED BREATHING OF VAPOR OR MIST. READ INSTRUCTIONS BEFORE USING.

Section IX-Control Measures

RESPIRATORY PROTECTION

IN OPEN AREAS: USA APPROVED MECHANICAL FILTER RESPIRATORS TO REMOVE SOLID AIR-BORNE PARTICLES. IN RESTRICTED VENTILATION AREA: USA OSHA APPROVED CHEMICAL/MECHANICAL FILTER RESPIRATORS DESIGNED TO REMOVE A COMBINATION OF PARTICLES AND VAPOR, IF LOCAL EXHAUST IS NOT SUFFICIENT TO KEEP LEL BELOW STATED IN SECTION III.

VENTILATION

ALL APPLICATION AREAS SHOULD BE VENTILATED IN ACCORDANCE WITH OSHA REGULATION 29CFR.1910 TO KEEP AIR CONTAMINANT CONCENTRATION LEVELS BELOW APPLICATION OSHA PERMISSIBLE EXPOSURE LIMIT OR ACGIH'S TLV LIMIT.

PROTECTIVE GLOVES

REQUIRED FOR PROLONGED OR REPEATED CONTACT.

EYE PROTECTION

USE SAFETY EYE WEAR WITH SPLASH GUARDS OR SIDE SHIELDS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

EYE BATH, SAFETY SHOWER, APRONS

WORK/HYGIENIC PRACTICES

WEAR PROTECTIVE CLOTHING WHEN NECESSARY. WASH THOROUGHLY BEFORE FOOD PRODUCTS.