

Product Name: Cal-Bor
Product ID # 111

Section I MANUFACTURER'S INFORMATION

Manufacturer's Name & Address

NAP Chemical	Emergency Telephone Number:	509-547-8234
821 S. Chestnut	Number for Information:	509-547-8234
Pasco, Washington 99301	Date Prepared:	January 14, 1999

Section PRODUCT IDENTIFICATION

PRODUCT NAME:	Cal-Bor
COMMON SYNONYMS:	Calcium Acetate and Poly Borate
CHEMICAL FAMILY:	Calcium Acetate (CH ₃ CO ₂) ₂ Ca. 5H ₂ O and Boric Acid (H ₃ BO ₃)
FORMULA:	Calcium Acetate Pentahydrate Boric Acid 2 Minoethanol
COMPONENT:	CAS: 26038-87-9
NIOSH/RTECS NO.:	GL8900000
HEALTH	- 1 MODERATE
FLAMMABILITY	- 0 NONE
REACTIVITY	- 0 NONE
CONTACT	- 1 MODERATE

U.S. PRECAUTIONARY STATEMENT

WARNING: Causes irritation. Harmful if swallowed. Avoid contact with eyes, skin, and clothing. Keep in tightly closed container. Use with adequate ventilation. Washing thoroughly after handling.

INTERNATIONAL STATEMENT

HARMFUL IF SWALLOWED. Irritating to respiratory system and skin. After contact with skin, wash immediately with plenty of soap and water. If irritation occurs, get Medical attention.

Section III PHYSICAL DATA

Boiling Point: @ 760 mm Hg 115.5 C	Vapor Pressure (MMGH) : N/A
Melting Point: 653 c (1207 F)	Decomposes Vapor Density (AIR=1): N/A
(AT 760 MM HG)	
Specific Gravity: (H ₂ O=1): 1.17	Evaporation Rate: N/A
Solubility (H ₂ O): Appreciable (10%)	% Volatiles by Volume: 0 (21 C)
pH: 5.5 @ 100 GM/L (Range 8-9)	Physical State: Liquid
Coefficient Water/Oil Distribution:	N/A
Appearance & Odor:	Yellow liquid, slight Vinegar odor

Section IV FIRE AND EXPLOSION DATA

Flashpoint (Closed cup):	N/A
Auto Ignition Temperatures:	N/A
Flammable Limits:	Upper - N/A
Fire Extinguishing Media:	Lower - N/A

Extinguishing Media Appropriate for surrounding Fire.

Special fire-fighting procedures:

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in Positive Pressure Mode.

Unusual Fire & Explosion Hazards: Note: Decomposes at Melting Point.

TOXIC GASES PRODUCED:

Data Explosion Data - Sensitivity to Mechanical Impact: None identified.

Explosion - Sensitivity to Static Discharge: None identified.

Section V HEALTH AND HAZARD DATA

Threshold Limit Value(TLV/TWA):	1 MG/M3
TLV is for Calcium, Dusts, and Mists, as CU.	
Short-term exposure Limit(STEL):	Not Established.
Permissible exposure Limit(PEL):	1 MG/M3
Carcinogenicity:	None identified.
Productive Effects:	None identified.
Effects of Over-exposure:	

