

MATERIAL SAFETY DATA SHEET



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1. PRODUCT IDENTIFICATION

PRODUCT NAME: EXTRA BOND
PHYSICAL FORM: Mobile liquid / at processing temperature
COLOR: White / at processing temperature
ODOR: Mild / similar to kindergarten paper paste
VOC CONTENT: None / Zero
HAZARDS: The usual small quantities for household use do not present any hazard unless ingested.
EXTINGUISHING MEDIA: The product will only burn after the water it contains is driven off.

C.A.S. CHEMICAL NAME: Mixture
SYNONYMS: None
CHEMICAL FAMILY: Emulsion Polymer
EMPIRICAL FORMULA: Mixture
INTENDED USE: Water based paint additive
REVISION NOTES: None

2. INGREDIENTS

CAS NUMBER	CHEMICAL NAME	OSHA EXPOSURE LIMITS
7732-18-5	Water	Not established (non-hazardous)
Proprietary	Emulsion polymer blend	Not established (non-hazardous)

The remaining non-hazardous ingredients are trade secrets.

3. HEALTH HAZARDS

HEALTH HAZARDS: There are no known health hazards.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known
TARGET ORGANS: None known
SIGNS AND SYMPTOMS OF EXPOSURE (Acute effects) There are no known signs or symptoms of exposure.
SIGNS AND SYMPTOMS OF EXPOSURE (Possible longer term effects): No known effects.
ROUTES OF EXPOSURE: Eye contact, skin contact, ingestion, inhalation.
EXPOSURE STANDARDS: The usual small quantities for household use do not present any hazard unless ingested. Under normal conditions of use in a well ventilated space, the concentration of minor components in the workplace air will not exceed the TLV or PEL. Always maintain air contaminant concentrations in the workplace at the lowest feasible levels.
CARCINOGENS UNDER OSHA, ACGIH, NTP, IARC: This product contains no listed carcinogens in concentrations of 0.1 percent or greater.

4. FIRST AID

EYE CONTACT:	Rinse immediately with plenty of water.
SKIN CONTACT:	Wash affected area with soap and water.
INHALATION:	Move patient to fresh air. If breathing has stopped or is labored give respiration (e.g., mouth-to-mouth). Supplemental oxygen may be indicated. Seek medical advice. Prevent aspiration of vomit. Turn victim's head to the side.
INGESTION:	If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by medical personnel. <i>Never give anything by mouth to an unconscious person.</i>

5. FIRE AND EXPLOSION DATA

FIRE HAZARD CLASSIFICATION:	Non-Combustible (OSHA/NFPA)
FLASH POINT (closed cup):	No data
UPPER EXPLOSION LIMIT (UEL):	No data
LOWER EXPLOSION LIMIT (LEL):	No data
AUTOIGNITION TEMPERATURE:	No data
EXTINGUISHING MEDIA:	The product will only burn after the water it contains is driven off. For dry polymer use water or carbon dioxide. Product does not burn. Aqueous solution is not flammable.
SPECIAL FIRE FIGHTING PROCEDURES:	No special procedures required. The product, as distributed, is noncombustible.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	When dried polymer burns, water (H ₂ O), carbon dioxide (CO ₂), carbon monoxide (CO) and smoke are produced.

6. ACCIDENTAL RELEASE MEASURES

CONTAINMENT TECHNIQUES (Removal of ignition sources, diking, etc.)	Stop the leak, if possible. Ventilate the space involved.
CLEAN-UP PROCEDURES:	If recovery is not feasible, admix with dry soil, sand or non-reactive absorbent and place in an appropriate waste container. Wash contaminated property thoroughly before the material dries. Large commercial spills may require a vacuum truck.
OTHER EMERGENCY ADVICE:	Spilled polymer emulsion is very slippery. Use care to avoid falls. A film will form on drying. Remove saturated clothing and wash contacted skin area with soap and water. Product imparts a milky white color to contaminated waters. Foaming may result. Sewage treatment plants may not be able to remove the white color imparted to the water.

7. HANDLING AND STORAGE

STORAGE:	Keep away from oxidizers. Avoid freezing temperatures during storage. Minimize contact with atmospheric air to prevent inoculation with microorganisms.
HANDLING:	No special precautions required.
OTHER PRECAUTIONS:	Keep containers closed when not in use. Wash thoroughly after handling. Use common sense and good manufacturing practices.

8. PERSONAL PROTECTION / EXPOSURE CONTROLS

EYE PROTECTION:	Chemical safety glasses.
HAND PROTECTION:	Rubber gloves. The breakthrough time of the selected glove(s) must be greater than the intended use period.
RESPIRATORY PROTECTION:	Not required under normal conditions in a well ventilated workplace. A (NIOSH) approved respirator for organic vapors is recommended under emergency conditions.
PROTECTIVE CLOTHING:	No specific recommendation.
ENGINEERING CONTROLS:	Commercial users should maintain air concentrations in work spaces in accord with standards outlined in Sections 2 and 3. Supplementary local exhaust may be needed in poorly ventilated areas or when transferring large quantities.
WORK AND HYGIENIC PRACTICES:	None recommended.

9. TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM (at processing temperature):	Mobile liquid.
COLOR (at processing temperature):	White
ODOR (descriptive analysis):	Kindergarten paper paste like.
pH:	Not established
BOILING POINT:	>100.00C (>212.00F)
SOLUBILITY IN WATER:	Completely (100%)
SPECIFIC GRAVITY (Water = 1):	1.07
VISCOSITY (CPS):	500 – 700 cps. @ 25C (77.00 F)
MOLECULAR WEIGHT:	Mixture

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable at ambient temperatures. Coagulation may occur following freezing, thawing or boiling.
CONDITIONS TO AVOID (if unstable):	Not applicable
INCOMPATIBILITY (materials to avoid):	Mineral acids (i.e., sulfuric, phosphoric, etc.). Alkalis (i.e., Sodium or Potassium Hydroxide, etc.).
HAZARDOUS DECOMPOSITION PRODUCTS (from burning, heating, or reaction with other materials):	Carbon Monoxide in a fire. Carbon Dioxide in a fire. Acetic Acid. Depending upon formulation conditions (such as pH>7), the level of acetaldehyde may increase as a result of hydrolysis of trace residual <0.01% monomer.
HAZARDOUS POLYMERIZATION:	Will not occur.

11. TOXICOLOGICAL PROPERTIES

ACUTE ORAL TOXICITY (LD50, RAT):	No data
ACUTE DERMAL TOXICITY (LD50, RABBIT):	No data
ACUTE INHALATION TOXICITY (LC50, RAT):	No data
OTHER ACUTE EFFECTS:	No data
IRRITATION EFFECTS DATA:	No irritation data are known for this product.
CHRONIC/SUBCHRONIC DATA:	No delayed, subchronic or chronic test data are known.

12. ECOLOGICAL INFORMATION

No data

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Comply with all Federal, State and Local regulations. For small quantities (less than 100 gallons): Disposal to municipal or industrial wastewater treatment plants is normally acceptable. Larger quantities may require approval from these authorities before disposal. The product does impart a white, milky color to water, which may not be removed or sufficiently diluted by the treatment facility. The product may also cause foaming when agitated. The product can be chemically or biologically degraded. For large quantities: Disposal through licensed waste disposal facilities is suggested. The product can be incinerated, though chemical or biological treatment is sufficient. Chemical precipitation/coagulation can be used to facilitate removal of solids. NOTE: As supplied or diluted, product material (foam included), when splashed on personal property, is difficult to remove if allowed to dry.

14. TRANSPORT INFORMATION

DOT NON-BULK SHIPPING NAME:

RESIN COMPOUND – Not DOT Regulated // Keep from freezing.

DOT BULK SHIPPING NAME: Refer to Bill of Lading.

IMO SHIPPING DATA: Refer to Bill of Lading.

ICAO/IATA SHIPPING DATA: RESIN COMPOUND – Not IATA Regulated // Keep from freezing.

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TOXIC SUBSTANCES CONTROL ACT (TSCA):

All components are included in the EPA (TSCA) inventory.

TOXIC SUBSTANCE CONTROL ACT (TSCA) 12(b) COMPONENT(S):

Refer to Bill of Lading.

OSHA HAZARD COMMUNICATION STANDARD (29CFR1910.1200) HAZARD CLASS(ES):

None

EPA SARA TITLE III SECTION 312 (40CFR370) HAZARD CLASS:

None

EPA SARA TITLE III SECTION 313 (40CFR372) TOXIC CHEMICALS ABOVE “DE MINIMIS” LEVEL ARE:

None

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