

**PRO PACKAGING, INC./OREQ CORPORATION**  
**42306 Remington Avenue Temecula CA 92590**

**ClearView®**  
**MATERIAL SAFETY DATA SHEET**

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**SECTION I**

**MANUFACTURER'S NAME**  
**PRO PACKAGING, INC.**

**EMERGENCY TELEPHONE**  
**CHEMTREC 1-800-424-9300**

**TRADE NAME AND SYNONYMS**  
**ClearView® BROMOTAB**

**CHEMICAL NAME AND SYNONYMS**  
1-BROMO-3-CHLORO-5, 5-DIMETHYLHYDANTOIN

**CHEMICAL FAMILY**  
HALOGENATED HYDANTOIN

**FORMULA**  
C<sub>5</sub>H<sub>6</sub>BrClN<sub>2</sub>O<sub>2</sub>

**SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

<b>COMPONENT</b>		<b>HAZARD DATA</b>
1-BROMO-3CHLORO-5, 5-DIMETHYLHYDANTOIN	96%	PRODUCT IS CONSIDERED CORROSIVE TO SKIN AND EYES
INERT	4%	(PEL OSHA PPM) NE(1)

**SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS**

<b>BOILING POINT</b>	<b>SPECIFIC GRAVITY (H20-1)</b>
NOT DETERMINED	N/A

<b>VAPOR PRESSURE (MM Hg.)</b>	<b>VAPOR DENSITY (AIR=1)</b>
N/A	N/A

<b>SOLUBILITY IN WATER</b>	<b>MELTING POINT</b>
0.15G/100G H <sub>2</sub> O	WITH DECOMPOSITION

<b>APPEARANCE AND ODOR</b>	<b>EVAPORATION RATE</b>
WHITE TABLETS WITH FAINT HALOGEN ODOR	(BUTYL ACETATE=1) – NOT ESTABLISHED

**SECTION IV – FIRE AND EXPLOSION HAZARDS**

<b>FLASH POINT (METHOD USED)</b>	<b>FLAMMABLE LIMITS</b>
N/A	N/A

**EXTINGUISHING MEDIA**  
USE LARGE QUANTITIES OF WATER. DO NOT USE ABC OR OTHER DRY CHEMICAL EXTINGUISHERS

**SPECIAL FIRE FIGHTING PROCEDURES** – WEAR SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE. HYDROGEN BROMIDE OR BROMINE MAY BE RELEASED. AMMONIUM PHOSPHATE ABC EXTINGUISHERS SHOULD NOT BE USED.

**UNUSUAL FIRE AND EXPLOSION HAZARDS** – IN FIRES FUELED BY OTHER MATERIALS, THE PRODUCT MAY SMOLDER FOR PROLONGED PERIODS EMITTING A DENSE BLACK SMOKE

## SECTION V – HEALTH HAZARD DATA

**THRESHOLD LIMIT VALUE** – SKIN IRRITATION INDEX IS 6.1

**TOXICITY** – NOT LISTED BY OSHA AS A CARCINOGENIC. ORAL LD50 IN RATS IS 578 MG/KG DERMAL LD50 IS >2.0G/GK IN RABBITS, CONTACT WITH DILUTED SOLUTIONS (.1% OR LESS IS NON IRRITATING)

**ROUTES OF ENTRY** – INHALATION, EYE CONTACT, SKIN CONTACT, INGESTION

**EFFECTS OF OVER-EXPOSURE** – CAN CAUSE IRREVERSIBLE EYE DAMAGE AND SKIN IRRITATION FROM CONTACT. INHALATION OF DUST CAN CAUSE NASAL AND THROAT IRRITATION.

**EMERGENCY AND FIRST AID PROCEDURES** – EYES: FLUSH WITH WATER FOR 15 MINUTES. SKIN: WASH WITH SOAP AND WATER FOR 15 MINUTES. IF IRRITATION DEVELOPS SEEK MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING, DO NOT DRINK ALCOHOL. DRINK LARGE AMOUNTS OF WATER. SEEK MEDICAL ATTENTION PROMPTLY. INHALATION: REMOVE TO FRESH AIR, IF BREATHING IS DIFFICULT, HAVE TRAINED PERSON ADMINISTER OXYGEN, CALL A PHYSICIAN IMMEDIATELY.

## SECTION VI – REACTIVITY DATA

### STABILITY

STABLE UNDER NORMAL CONDITIONS

### CONDITIONS TO AVOID

HIGH TEMPERATURE, POOR VENTILATION

**INCOMPATIBILITY** – AVOID EASILY OXIDIZABLE ORGANIC MATERIAL, AMMONIA, UREA, OR SIMILAR NITROGEN CONTAINING COMPOUNDS, STRONG REDUCING AGENTS, AND CALCIUM HYPOCHLORITE.

**HAZARDOUS DECOMPOSITION PRODUCTS** – BROMINE AND CHLORINE-CONTAINING GASES, HYDROGEN BROMIDE AND HYDROGEN CHLORIDE.

### HAZARDOUS POLYMERIZATION

WILL NOT OCCUR

### CONDITIONS TO AVOID

NONE

## SECTION VII – PRECAUTIONS FOR SAFE HANDLING

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED** – CONTAIN MATERIAL; KEEP SPILLED MATERIAL DRY SWEEP OR SCOOP UP ALL SPILLED MATERIAL AND PLACE IN A CONTAINER FOR DISPOSAL. ONCE DRY CLEAN UP IS DONE, WASH AREA WITH LARGE AMOUNTS OF WATER. AVOID CONTACT WITH SKIN AND EYES, AVOID BREATHING DUST.

**WASTE DISPOSAL METHOD** – DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS

## SECTION VIII – CONTROL MEASURES

### RESPIRATORY PROTECTION

AVOID BREATHING DUST, WEAR APPROVED DUST MASK WHEN HANDLING.

### VENTILATION

**LOCAL EXHAUST** – MAINTAIN SUFFICIENT EXHAUST TO KEEP FROM OVER EXPOSURE  
**MECHANICAL** USE FOR GENERAL AREA CONTROL

### SPECIAL

NONE  
**OTHER** - NONE

**PROTECTIVE GLOVES** – RUBBER GLOVES AND PROTECTIVE CLOTHING TO AVOID CONTACT.

### EYE PROTECTION

CHEMICAL SAFETY GOGGLES

**OTHER PROTECTIVE EQUIPMENT** – LONG SLEEVED CLOTHING, WASH THOROUGHLY AFTER HANDLING

## SECTION IX – SPECIAL PRECAUTIONS

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING** – STORE IN A COOL DRY PLACE IN CLOSED CONTAINER, KEEP LIDS TIGHTLY CLOSED WHEN NOT IN USE, KEEP AWAY FROM HEAT, OPEN FLAME, ORGANIC CHEMICALS, AND SUNLIGHT.

**OTHER PRECAUTIONS – DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL**

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