

**PRO PACKAGING, INC./OREQ CORPORATION**  
**205 Commercial Dr., St. Augustine, FL 32092**

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

INFORMATION ON THIS FORM IS FURNISHED SOLELY FOR THE PURPOSE OF COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND SHALL NOT BE USED FOR ANY OTHER PURPOSE USE OR DISSEMINATION OF ALL OR ANY PART OF THIS INFORMATION FOR ANY OTHER PURPOSE MAY RESULT IN A VIOLATION OF LAW OR CONSTITUTE GROUNDS FOR LEGAL ACTION

**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**

**COMPONENT**

1-BROMO-3-CHLORO-5,  
5-DIMETHYLHYDANTOIN 96%  
INERT 4%

**HAZARD DATA**

PRODUCT IS CONSIDERED CORROSIVE TO SKIN AND EYES  
**(PEL OSHA PPM) NE(1)**

**SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS**

**BOILING POINT**  
NOT DETERMINED

**SPECIFIC GRAVITY (H20-1)**  
N/A

**VAPOR PRESSURE (MM Hg.)**  
N/A

**VAPOR DENSITY (AIR=1)**  
N/A

**SOLUBILITY IN WATER**  
0.15G/100G H<sub>2</sub>O

**MELTING POINT**  
WITH DECOMPOSITION

**APPEARANCE AND ODOR**  
WHITE TABLETS WITH FAINT HALOGEN ODOR

**EVAPORATION RATE**  
(BUTYL ACETATE=1) – NOT ESTABLISHED

**SECTION IV – FIRE AND EXPLOSION HAZARDS**

**FLASH POINT (METHOD USED)**  
N/A

**FLAMMABLE LIMITS**  
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.

<b>VENTILATION</b>	<b>LOCAL EXHAUST</b> – MAINTAIN SUFFICIENT EXHAUST TO KEEP FROM OVER EXPOSURE	<b>SPECIAL</b> NONE
	<b>MECHANICAL</b> USE FOR GENERAL AREA CONTROL	<b>OTHER</b> - NONE

<b>PROTECTIVE GLOVES</b> – RUBBER GLOVES AND PROTECTIVE CLOTHING TO AVOID CONTACT.	<b>EYE PROTECTION</b> CHEMICAL SAFETY GOGGLES
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**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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