



## ARMOR POLY™ VCI CO-EX DEFENDER™ AND CRUSADER™

# MATERIAL SAFETY DATA SHEET

### SECTION I - IDENTITY

**MANUFACTURER:** ARMOR Protective Packaging™  
951 Jones St.  
Howell, MI 48843

**PRODUCT USE:** Corrosive Resistant Plastic Packaging Material for Ferrous & Non-Ferrous Metals, Polyethylene with Volatile Corrosion Inhibitor Additive

### SECTION II - HAZARDOUS INGREDIENTS

#### COMPONENTS

#### CAS No.

ARMOR POLY™ VCI	Proprietary Formula - Ingredients are not considered hazardous, according to WHMIS or OSHA
Copolymer of ethylene and Octene-1	026221-73-8
High Density Polyethylene	9002-88-4
Silicon Dioxide	068855-54-9
Talc	014807-96-6

### SECTION III - PHYSICAL DATA

<b>BOILING POINT:</b>	N/A	<b>SPECIFIC GRAVITY:</b>	N/A
<b>VAPOR PRESSURE:</b>	N/A	<b>pH of TREATMENT:</b>	N/A
<b>VAPOR DENSITY:</b>	N/A	<b>EVAPORATION RATE:</b>	N/A
<b>SOLUBILITY IN WATER:</b>	Insoluble	<b>ODOR:</b>	None
<b>PHYSICAL STATE :</b>	Solid	<b>ODOR THRESHOLD:</b>	None

### SECTION IV - REACTIVITY

**STABILITY:** Stable      **CONDITIONS TO AVOID:** Temperatures over 250° F  
**INCOMPATIBILITY:** (materials to avoid) Contact with strong oxidizing agents and acids.  
**HAZARDOUS POLYMERIZATION:** Will not occur.  
**HAZARDOUS DECOMPOSITION OF PRODUCTS:** Decomposition of products depends on temperature, other materials present and air supply. During thermal processing this material can degrade to produce trace hydrocarbons, aldehydes, organic acids, and alcohols in limited quantities. Complete combustion results in carbon dioxide and water.

### SECTION V - FIRE AND EXPLOSION HAZARDS

**FLASH POINT:** N/A      **EXTINGUISHING MEDIA:** Water fog, Carbon Dioxide, Foam and Dry Powder  
**SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:** Wear full protective equipment including self contained breathing apparatus.

Rev. 11/02/07

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**ARMOR POLY™ VCI CO-EX DEFENDER™ AND CRUSADER™**  
**MATERIAL SAFETY DATA SHEET continued**

**SECTION VI - HEALTH HAZARD DATA**

**PRIMARY ROUTES OF EXPOSURE:** Skin or eye contact

**INHALATION:** Vapors unlikely due to physical properties. If material is shredded or ground dust may occur, breathing dust may irritate nose and throat.

**EYE CONTACT:** Low hazard. Dusts may irritate eyes or rubbing eyes while handling material.

**SKIN CONTACT:** No irritation is likely after contact but may if exposure is prolonged.

**CHRONIC EFFECTS OF EXPOSURE:** Contains trace amount of crystalline silica (<0.1%). Crystalline silica is considered a hazard by inhalation. IARC has classified crystalline silica as probably carcinogenic for humans. Crystalline silica is also known to cause silicosis, a noncancerous lung disease caused by excessive exposure to silica.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** None reported

**SPECIAL HAZARDS:** This product contains the following components with the special hazards listed below.

<b>CARCINOGENS:</b>	N/A	<b>TERATOGENS:</b>	N/A
<b>MUTAGENS:</b>	N/A	<b>REPRODUCTIVE TOXINS:</b>	N/A

**MATERIAL EXPOSURE LIMITS:** Has not yet been established

**SECTION VII - STORAGE AND SPECIAL PRECAUTIONS**

**WASTE DISPOSAL METHOD:** Landfill, within Federal, Provincial & Local regulations.

**HANDLING AND STORING:** Material should be kept clear from flammable or high risk fire areas, and stored in a dry clean place.

**SECTION VIII - EMERGENCY AND FIRST AID**

**INHALATION:** No adverse effects anticipated by this route of exposure.

**EYE CONTACT:** If eye irritation occurs, flush with water. Get medical attention if irritation persists.

**SKIN CONTACT:** If irritation occurs, wash skin with water and mild detergent. Get medical attention if irritation persists. If burned by contact with molten material, cool as quickly as possible with water and see a physician for treatment of burn. Do not attempt to peel polymer from skin. Note to physician; burns should be treated as thermal burns. The plastic will come off as healing occurs; therefore, immediate removal from the skin is not necessary.

**INGESTION:** Get medical attention.

**SECTION IX - PERSONAL PROTECTION INFORMATION**

**ENGINEERING CONTROLS:** Adequate ventilation should be available to maintain dust levels if dusting problem occurs.

**RESPIRATORY PROTECTION:** None required under normal operating conditions

**SKIN PROTECTION:** No protection normally required. If irritation occurs, gloves should be worn.

**EYE PROTECTION:** Wear goggles if dusting problem occurs.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** None known at this time.

**WORK/HYGENIC PRACTICES:** Avoid contact with foodstuffs. Wash hands after using.

**SECTION X - ADDITIONAL INFORMATION**

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PREPARED BY: Quality Control Department of ARMOR Protective Packaging™  
DATE: November 2007

Rev. 11/02/07

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