



Material Safety Data Sheets

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1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product: HDPE NATURAL PELLETS

Product Code: AVPE300

Effective Date: 12/16/02

Date Printed: 11/05/03

MSD: 005529

Aaron Industries Corp., Leominster, MA 01453

2. COMPOSITION/INFORMATION ON INGREDIENTS

Copolymer of ethylene and Octene – 1	CAS# 026221-73-8	> 85%
Silicon Dioxide	CAS# 068855-54-9	< 2.0%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

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\*Natural pellets or granules. Odorless. Toxic fumes may be released in fire situations.

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POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data).

EYE: Solid or dust may cause irritation or corneal injury due to mechanical action.

SKIN: Essentially nonirritating to skin. Mechanical injury only. Under normal processing conditions, material is heated to elevated temperatures: contact with the material may cause thermal burns. Skin absorption is unlikely due to physical

INGESTION: Single dose oral toxicity is considered to be extremely low. No hazards anticipated from swallowing small amounts incidental to normal handling operations.

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**INHALATION:** Single exposure to dust is not likely to be hazardous.

**SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:** Additives are encapsulated in the product and are not expected to be released under normal processing conditions or foreseeable emergency.

**CANCER INFORMATION:** No relevant information found.

**TERATOLOGY (BIRTH DEFECTS):** No relevant information found.

**REPRODUCTIVE EFFECTS:** No relevant information found.

## 4. FIRST AID

**EYE:** Flush eyes with plenty of water; mechanical effects only.

**SKIN:** If molten material comes in contact with the skin, do not apply ice but cool under ice water or running stream of water. DO NOT attempt to remove the material from the skin. Removal could result in severe tissue damage.

**INGESTION:** No adverse effects anticipated by this route of exposure incidental to proper industrial handling.

**INHALATION:** Remove to fresh air if effects occur. Consult a physician.

**NOTE TO PHYSICIAN:** If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgement of the physician in response to reactions of the patient.

## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES

FLASH POINT: Not applicable

METHOD USED: Not applicable

### FLAMMABILITY LIMITS

LFL: Not applicable

UFL: Not applicable

**HAZARDOUS COMBUSTION PRODUCTS:** Under fire conditions, polymers decompose. The smoke may contain polymer fragments of varying compositions in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to: carbon dioxide and carbon monoxide.

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**OTHER FLAMMABILITY INFORMATION:** Dense smoke is emitted when burned without sufficient oxygen. Mechanical handling can cause formation of dusts. To reduce the potential for dust explosion, do not permit dust to accumulate.

**EXTINGUISHING MEDIA:** Water, carbon dioxide, dry chemical

**FIRE FIGHTING INSTRUCTIONS:** Keep people away. Isolate fire area and deny unnecessary entry. Cool surroundings with water to localize fire zone. Hand held carbon dioxide or dry chemical extinguishers may be used in small fires. If material is molten, do not apply direct water stream. Use fine water spray or foam. Soak thoroughly with water to cool and prevent re-ignition.

**FIRE FIGHTING EQUIPMENT:** Wear positive pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. **ACCIDENTAL RELEASE MEASURES** (See Section 15 for Regulatory Information)

**PROTECT PEOPLE:** Pellets or beads may present a slipping hazard.

**PROTECT THE ENVIRONMENT:** Spills should be collected to prevent contamination of waterways.

**CLEAN UP:** Sweep up

7. **HANDLING AND STORAGE**

**HANDLING:** Good housekeeping and controlling dusts are necessary for safe handling of product. Electrically ground all equipment.

**STORAGE:** Do not expose pellets or finished article to ultraviolet light.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

**PERSONAL PROTECTIVE EQUIPMENT**

**EYE/FACE PROTECTION:** Use chemical goggles.

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**SKIN PROTECTION:** No precautions other than clean body covering clothing should be needed. Use gloves with insulation for thermal protection, when needed.

**RESPIRATORY PROTECTION:** In dusty atmospheres, use an approved dust respirator.

**EXPOSURE GUIDELINES:** Although some of the additives used in this product may have exposure guidelines, these additives are encapsulated in the product and no exposure would be expected under normal handling conditions.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE/PHYSICAL STATE:** Translucent solid pellets or granules.

**ODOR:** Odorless

**VAPOR PRESSURE:** Not applicable

**VAPOR DENSITY:** Not Applicable

**BOILING POINT:** Not applicable

**SOLUBILITY IN WATER/MISCIBILITY:** Nil

**SPECIFIC GRAVITY OR DENSITY:** 0.91 – 0.97

## 10. STABILITY AND REACTIVITY

**CHEMICAL STABILITY:** Stable.

**CONDITIONS TO AVOID:** Product can decompose at elevated temperatures.

**INCOMPATIBILITY WITH OTHER MATERIALS:** None Known

**HAZARDOUS DECOMPOSITION PRODUCTS:** Processing may release fumes which may include polymer fragments and other decomposition products. Fumes can be irritating. At temperatures exceeding melt temperatures, polymer fragments can occur. Hazardous decomposition products depend upon temperature, air supply and the presence of other materials. Hazardous decomposition products may include trace amounts of aldehydes, alcohols, hydrocarbons, organic acids.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGY INFORMATION (See Section 3 for Potential Health Effects)

**SKIN:** The dermal LD50 has not been determined.

**INGESTION:** Single dose oral LD50 has not been determined.

**MUTAGENICITY:** No relevant information found.

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## **12. ECOLOGICAL INFORMATION**

### **ENVIRONMENTAL FATE**

**MOVEMENT & PARTITIONING:** No bioconcentration is expected because of the high molecular weight (MW>1000). In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material is expected to float.

**DEGRADATION & PERSISTANCE:** This water insoluble polymeric solid is expected to be inert in the environment. Surface photodegradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

**ECOTOXICITY:** Not expected to be acutely toxic, but pellets may mechanically cause adverse effects if ingested by waterfowl or aquatic life.

## **13. DISPOSAL CONSIDERATIONS** (See Section 15 for Regulatory Information)

**DISPOSAL:** DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

**AARON INDUSTRIES HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MAUFACTURING PROCESSES OF PARTIES HANDLING OR USING THE MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONKY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/Information On Ingredients).**

**FOR UNUSED & UNCONTAMINATED PRODUCT,** the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator or other thermal destruction device, and landfill.

**As a service to its customer, Aaron can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess or manage chemicals or plastics.**

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## 14. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (D.O.T.): This product is not regulated by D.O.T. when shipped domestically by land.

CANADIAN TDG INFORMATION: This product is not regulated by TDG when shipped domestically by land.

## 15. REGULATORY INFORMATION (not meant to be all-inclusive—selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change or may differ from one location to another: it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state, or provincial and local laws and regulations. See other sections for health and safety information.

### U.S. REGULATIONS

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SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

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SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to met the following categories:

Not to have net any hazard category

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### TOXIC SUBSTANCES CONTROL ACT (TSCA):

All ingredients are on the TSCA inventory, or are not required to be listed on the TSCA inventory.

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**STATE RIGHT-TO-KNOW:** The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in the composition section of the of the MSDS.

## OSHA HAZARD COMMUNICATION STANDARD:

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## CANADIAN REGULATIONS

**WHMIS INFORMATION:** The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

This product is not a "Controlled Product" under WHMIS.