Origins Material Data Sheet

SECTION 1 - PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

SUPPLIER: YEMM & HART LTD  
CHEMICAL NAME: High Density Polyethylene (HDPE) (#2)  
CHEMICAL FAMILY: Thermoplastics  
TRADENAMES: Origins  
EMERGENCY TELEPHONE NO: 573-783-5434

SECTION 2 - TYPICAL CHEMICAL & PHYSICAL PROPERTIES

APPEARANCE: Waxy Solid  
ODOR: Slight paraffin odor  
BOILING POINT: N/A  
VAPOR PRESSURE - mm Hg 20°C: N/A  
VAPOR DENSITY (AIR = 1): >10  
SOLUBILITY IN WATER % BY WEIGHT: Insoluble  
FORMULA: (CH2-CH2)+Additives (if any)  
SPECIFIC GRAVITY gr/cc (WATER = 1): .952  
PH: N/A  
VAPOR PRESSURE: N/A

SECTION 3 - POTENTIALLY HAZARDOUS INGREDIENTS

MATERIAL: N/A  
PERCENTAGE (%): N/A  
TLV-TWA VALUES ADOPTED BY ACGIH: N/A

SECTION 4 - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: Problems not expected  
THRESHOLD LIMIT VALUE: N/A

SECTION 5 - EMERGENCY FIRST AID PROCEDURES

EYE CONTACT: Flush thoroughly with water. If irritation persists, call a physician.  
SKIN CONTACT: If hot material contacts skin, flush with cold water and secure treatment of thermal burn.  
INHALATION: Problems not expected.  
INGESTION: Problems not expected when ingested, if uncomfortable seek a physician.

SECTION 6 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 640° F (338° C)  
AUTOIGNITION TEMPERATURE: 640° F (338° C)  
FLAMMABLE LIMITS IN AIR % X VOLUME - LEL: N/A  
UEL: N/A  
EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.  
SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing. Use water to keep fire exposed materials cool. Use standard chemical fire fighting procedures. For fires in enclosed areas, firefighters must use self-contained breathing apparatus. Prevent fire control or dilution runoff from entering streams, sewers or drinking water supply.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: Exposure to fire can generate highly toxic fumes. Dust may be flammable when finely divided and suspended in the air.

SECTION 7 - REACTIVITY DATA

STABILITY (THERMAL, LIGHT, ETC.) - STABLE  
CONDITIONS TO AVOID: None known  
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, acetaldehyde, formaldehyde, formic & acetic acid  
HAZARDOUS POLYMERIZATION - MAY OCCUR: WILL NOT OCCUR  
CONDITIONS TO AVOID: None known

SECTION 8 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Sweep up and collect as harmless organic waste.  
WASTE DISPOSAL METHOD: Recycle, landfill or incineration in accordance with regulations.

SECTION 9 - SPECIAL PROTECTION INFORMATION

EYE PROTECTION: When cutting, drilling or sanding  
PROTECTIVE GLOVES: When handling hot material  
RESPIRATORY PROTECTION (SPECIFY TYPE): When cutting or sanding, approved dust respirators must be worn.  
VENTILATION: Use adequate ventilation when cutting, sanding or thermo processing.  
OTHER PROTECTIVE EQUIPMENT: Gloves are recommended when handling heavy material with sharp edges.

SECTION 10 - SPECIAL PRECAUTIONS

HANDLING: Thin polyethylene sheets, when slid across one another can build up a static electrical charge. Do not slide sheets from a stack where potentially flammable air/dust or air/vapor mixtures exist. To minimize static electricity buildup, lift sheet straight up from stack. Thermo degradation products of polyethylene may include acetaldehyde, formaldehyde, formic acid and acetic acid.  
STORAGE: Store in a cool area.  
PRECAUTIONARY LABELING: Do not slide thin polyethylene sheets off of a stack where potentially flammable air/dust or air/vapor mixtures exist due to possible fire or explosion hazard from static electrical charge.

SECTION 11 - TOXICOLOGICAL DATA - Acute toxicity

TOXICITY: ORAL (RATS), DERMAL (RABBITS), INHALATION (RATS): Nontoxic - Based on testing of similar products and/or components.  
EYE & SKIN IRRITATION (RABBITS): Non-irritating - Based on testing of similar products and/or components.

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