

REPORT NUMBER: 703

MSDS NO: 70433

MAINFRAME UPLOAD DATE: 09/27/07

PERFORMANCE POLYMERS
MATERIAL SAFETY DATA SHEET

Resin

PAGE: 001

VERSION: 001

PRODUCT: POLYETHYLENE (HDPE) ETHENE-HEXENE-1 COPOLYMER

ORDER NO: 185005
PROD NO : 779607

TOLEDO MOLDING & DIE
515 EAST GYPSY LANE

BOWLING GRN ,OH 43402

PP-LQ LEOMINSTER
803R LANCASTER STREET

, LEOMINSTER

, MA 01453

----- EMERGENCY ASSISTANCE -----

FOR EMERGENCY ASSISTANCE INVOLVING CHEMICALS CALL -

PRODUCT NAME:

POLYETHYLENE (HDPE) ETHENE-HEXENE-1 COPOLYMER

MSDS NUMBER:

70433

DATE ISSUED:

12/21/2006

SUPERSEDES:

NEW

ISSUED BY:

007260

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

POLYETHYLENE (HDPE) ETHENE-HEXENE-1 COPOLYMER

MSDS #

0000002026

CODE

0000002026 (NAP)

PRODUCT USE

CONSUMER PRODUCTS. INDUSTRIAL APPLICATIONS.

SUPPLIER:

NEUS USA LLC

2600 SOUTH SHORE BLVD.

LDPE

REPORT NUMBER: 703

MSDS NO: 70433

MAINFRAME UPLOAD DATE: 09/27/07

PERFORMANCE POLYMERS
MATERIAL SAFETY DATA SHEET

PAGE: 002

VERSION: 001

PRODUCT: POLYETHYLENE (HDPE) ETHENE-HEXENE-1 COPOLYMER

ORDER NO: 185005
PROD NO : 779607

LEAGUE CITY, TEXAS 77573

EMERGENCY SPILL
INFORMATION:

1 (800) 424-9300

OUTSIDE THE US: +1 703-527-3887 (CHEMTREC)

OTHER PRODUCT
INFORMATION

1 (800) 527-5419 TOLL FREE - NORTH AMERICA

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME

1-HEXENE, POLYMER WITH ETHENE

CAS #

25213-02-9

% BY WEIGHT
>98

3. HAZARDS IDENTIFICATION

PHYSICAL STATE

GRANULAR SOLID. PELLETS. POWDER OR FLAKES SOLID.

COLOR

WHITE, TRANSLUCENT OR COLORLESS.

EMERGENCY OVERVIEW

THIS PRODUCT HAS BEEN EVALUATED AND DOES NOT REQUIRE ANY HAZARD WARNING ON THE LABEL UNDER ESTABLISHED REGULATORY CRITERIA.
HANDLING AND/OR PROCESSING OF THIS MATERIAL MAY GENERATE DUST WHICH MAY CAUSE MECHANICAL IRRITATION OF THE EYES, SKIN, NOSE AND THROAT.

ROUTES OF ENTRY

DERMAL CONTACT. EYE CONTACT. INHALATION. INGESTION.

POTENTIAL HEALTH EFFECTS

EYES

NO SIGNIFICANT IRRITATION EXPECTED OTHER THAN POSSIBLE MECHANICAL IRRITATION.
HEATED MATERIAL CAN CAUSE THERMAL BURNS. WHEN HEATED TO DECOMPOSITION IT EMITS ACRID SMOKE AND IRRITATING FUMES.

SKIN

NO SIGNIFICANT IRRITATION EXPECTED OTHER THAN POSSIBLE MECHANICAL IRRITATION.
HEATED MATERIAL CAN CAUSE THERMAL BURNS.

INHALATION

DUST: EXPOSURE TO AIRBORNE CONCENTRATIONS WELL ABOVE THE RECOMMENDED EXPOSURE LIMITS MAY CAUSE IRRITATION OF THE NOSE, THROAT, AND LUNGS. VAPOR: IF HEATED TO MORE THAN 300 DEG C, THE PRODUCT MAY FORM VAPORS OR FUMES WHICH COULD CAUSE IRRITATION OF THE RESPIRATORY TRACT, COUGHING, AND SHORTNESS OF BREATH.

INGESTION

NO SIGNIFICANT HEALTH HAZARDS IDENTIFIED.

REPORT NUMBER: 703

MSDS NO: 70433

MAINFRAME UPLOAD DATE: 09/27/07

PERFORMANCE POLYMERS
MATERIAL SAFETY DATA SHEET

PAGE: 003

VERSION: 001

PRODUCT: POLYETHYLENE (HDPE) ETHENE-HEXENE-1 COPOLYMER

ORDER NO: 185005

PROD NO : 779607

MEDICAL CONDITIONS AGGRAVATED BY OVER- EXPOSURE
NONE IDENTIFIED.

SEE TOXICOLOGICAL INFORMATION (SECTION 11)

4. FIRST AID MEASURES

EYE CONTACT

HOT MATERIAL: FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ASSISTANCE FOR MECHANICAL REMOVAL OF THIS MATERIAL FROM THE EYE. THE USE OF FLUSH FLUID, OTHER THAN WATER, IS NOT RECOMMENDED. COLD MATERIAL: FLUSH EYES WITH PLENTY OF WATER. GET MEDICAL ATTENTION IF IRRITATION OCCURS.

SKIN CONTACT

IF BURNED BY CONTACT WITH HOT MATERIAL, FLUSH SKIN IMMEDIATELY WITH LARGE AMOUNTS OF COLD WATER. IF POSSIBLE, SUBMERGE AREA IN COLD WATER. NO ATTEMPT SHOULD BE MADE TO DETACH POLYMER ADHERING TO THE SKIN OR TO REMOVE CLOTHING ATTACHED WITH MOLTEN MATERIAL. THERMAL BURNS REQUIRE IMMEDIATE MEDICAL ATTENTION. COLD MATERIAL: WASH WITH SOAP AND WATER.

INHALATION

IF AFFECTED BY FUMES FROM HEATED MATERIAL, REMOVE FROM SOURCE OF EXPOSURE AND MOVE THE AFFECTED PERSON INTO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION.

INGESTION

DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF LARGE QUANTITIES OF THIS MATERIAL ARE SWALLOWED, CALL A PHYSICIAN IMMEDIATELY.

5. FIRE-FIGHTING MEASURES

FLAMMABILITY OF THE PRODUCT

MAY BE COMBUSTIBLE AT HIGH TEMPERATURE.

AUTO-IGNITION TEMPERATURE

>343 DEG C

FLASH POINT

ABOVE 300 DEG C DECOMPOSITION OCCURS AND FLASH OF FUMES MAY OCCUR.

PRODUCTS OF COMBUSTION

THESE PRODUCTS ARE CARBON OXIDES (CO, CO2) (CARBON MONOXIDE, CARBON DIOXIDE). MAY ALSO CONTAIN LOW LEVELS OF ALDEHYDES, KETONES, ORGANIC ACIDS OR HYDROCARBONS.

UNUSUAL FIRE/EXPLOSION HAZARDS

REPORT NUMBER: 703

MSDS NO: 70433

MAINFRAME UPLOAD DATE: 09/27/07

PERFORMANCE POLYMERS
MATERIAL SAFETY DATA SHEET

PAGE: 004

VERSION: 001

PRODUCT: POLYETHYLENE (HDPE) ETHENE-HEXENE-1 COPOLYMER

ORDER NO: 185005
PROD NO : 779607

HIGH DUST CONCENTRATIONS HAVE A POTENTIAL FOR COMBUSTION OR EXPLOSION.
THIS MATERIAL IS NOT EXPLOSIVE AS DEFINED BY ESTABLISHED REGULATORY CRITERIA.

FIRE-FIGHTING MEDIA AND INSTRUCTIONS
IN CASE OF FIRE, USE WATER SPRAY (FOG), FOAM OR DRY CHEMICALS. DO NOT USE
WATER JET.

PROTECTIVE CLOTHING (FIRE)
FIRE-FIGHTERS SHOULD WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING
APPARATUS (SCBA) AND FULL TURNOUT GEAR.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

IN CASE OF A LARGE SPILL: CONTACT EMERGENCY PERSONNEL. ELIMINATE ALL IGNITION
SOURCES. GRANULES SPILLED ON THE FLOOR CAN CAUSE SLIPPING. FINE DUST CLOUDS
MAY FORM EXPLOSIVE MIXTURES WITH AIR. DO NOT TOUCH OR WALK THROUGH SPILLED
MATERIAL. USE SUITABLE PROTECTIVE EQUIPMENT (SEE SECTION: "EXPOSURE
CONTROLS/PERSONAL PROTECTION"). FOLLOW ALL FIRE FIGHTING PROCEDURES (SEE
SECTION: "FIRE-FIGHTING MEASURES").

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS

IF EMERGENCY PERSONNEL ARE UNAVAILABLE VACUUM OR CAREFULLY SCOOP UP SPILLED
MATERIALS AND PLACE IN AN APPROPRIATE CONTAINER FOR DISPOSAL. AVOID CREATING
DUSTY CONDITIONS AND PREVENT WIND DISPERSAL. AVOID CONTACT OF SPILLED
MATERIAL WITH SOIL AND PREVENT RUNOFF ENTERING SURFACE WATERWAYS. SEE SECTION
13 FOR WASTE DISPOSAL INFORMATION.

PERSONAL PROTECTION IN CASE OF A LARGE SPILL
CHEMICAL/DUST GOGGLES. PERSONNEL SHOULD WEAR PROTECTIVE CLOTHING.

7. HANDLING AND STORAGE

HANDLING

THERE IS A RISK OF BEING SPLASHED WITH MOLTEN MATERIALS. THERMAL BURNS ARE
THE MOST COMMON INJURY CAUSED WHILE PROCESSING MOLTEN MATERIAL. DO NOT INHALE
FUMES OR VAPOR FROM MOLTEN PRODUCT. USE WITH ADEQUATE VENTILATION.

WHEN HANDLING HOT MATERIAL, WEAR HEAT RESISTANT PROTECTIVE GLOVES, CLOTHING
AND FACE SHIELD THAT ARE ABLE TO WITHSTAND THE TEMPERATURE OF THE HEATED
PRODUCT.

PNEUMATIC CONVEYING OF POWDER AND PELLETS CAN GENERATE LARGE STATIC
ELECTRICAL CHARGES. ELECTRICAL DISCHARGE IN PRESENCE OF AIR CAN CAUSE AN
EXPLOSION. EARTH ALL EQUIPMENT. HIGH DUST CONCENTRATIONS HAVE A POTENTIAL FOR
COMBUSTION OR EXPLOSION. TO AVOID FIRE OR EXPLOSION, DISSIPATE STATIC
ELECTRICITY DURING TRANSFER BY GROUNDING AND BONDING CONTAINERS AND EQUIPMENT

REPORT NUMBER: 703

MSDS NO: 70433

MAINFRAME UPLOAD DATE: 09/27/07

PERFORMANCE POLYMERS
MATERIAL SAFETY DATA SHEET

PAGE: 005

VERSION: 001

PRODUCT: POLYETHYLENE (HDPE) ETHENE-HEXENE-1 COPOLYMER

ORDER NO: 185005
PROD NO : 779607

BEFORE TRANSFERRING MATERIAL.

STORAGE

KEEP CONTAINER TIGHTLY CLOSED. KEEP CONTAINER IN A COOL, WELL-VENTILATED AREA. KEEP AWAY FROM HEAT AND DIRECT SUNLIGHT.

THE MAIN HAZARDS ARE RELATED TO PALLET STOCK SLIPPAGE AND FORKLIFT TRUCK MANEUVERS, WHICH CAN CAUSE INJURY TO PERSONNEL. IT IS HIGHLY RECOMMENDED THAT ADEQUATE PROCEDURES COVERING STORAGE HANDLING OF PALLETS ARE ESTABLISHED AND MAINTAINED. THESE PROCEDURES MUST BE KEPT UP TO DATE AND REGULARLY AUDITED. IN MOST CASES, BEST PRACTICE IS TO STACK PALLETS NO MORE THAN 2 HIGH. HOWEVER, FACILITIES RESPONSIBLE FOR STORING THE MATERIAL SHOULD PERFORM A SITE SPECIFIC RISK ASSESSMENT TO DETERMINE WHETHER PALLETS CAN BE STACKED SAFELY.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

INGREDIENT NAME

OCCUPATIONAL EXPOSURE LIMITS

1-HEXENE, POLYMER WITH ETHENE

ACGIH TLV (UNITED STATES, 2005).

TWA: 10 MG/M3 8 HOUR(S). FORM: INHALABLE
FRACTION PNOS

TWA: 3 MG/M3 8 HOUR(S). FORM: RESPIRABLE
FRACTION PNOS

CONTROL MEASURES

USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO KEEP AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS. IF USER OPERATIONS GENERATE DUST, FUME OR MIST, USE VENTILATION TO KEEP EXPOSURE TO AIRBORNE CONTAMINANTS BELOW THE EXPOSURE LIMIT.

HYGIENE MEASURES

WASH HANDS AFTER HANDLING COMPOUNDS AND BEFORE EATING, SMOKING, USING LAVATORY, AND AT THE END OF DAY.

PERSONAL PROTECTION

EYES

SAFETY GLASSES WITH SIDE SHIELDS. USE DUST GOGGLES IF HIGH DUST CONCENTRATION IS GENERATED.

SKIN AND BODY

HOT MATERIAL: WEAR HEAT-RESISTANT PROTECTIVE GLOVES, CLOTHING AND FACE SHIELD IF ARE ABLE TO WITHSTAND THE TEMPERATURE OF THE MOLTEN PRODUCT.

COLD MATERIAL: NONE REQUIRED; HOWEVER, USE OF PROTECTIVE CLOTHING IS GOOD

REPORT NUMBER: 703

MSDS NO: 70433

MAINFRAME UPLOAD DATE: 09/27/07

PERFORMANCE POLYMERS
MATERIAL SAFETY DATA SHEET

PAGE: 006

VERSION: 001

PRODUCT: POLYETHYLENE (HDPE) ETHENE-HEXENE-1 COPOLYMER

ORDER NO: 185005
PROD NO : 779607

INDUSTRIAL PRACTICE.

RESPIRATORY

PRODUCT PROCESSING, HEAT SEALING OF FILM, OR OPERATIONS INVOLVING THE USE OF WIRES OR BLADES HEATED ABOVE 300 DEG C MAY PRODUCE DUST, VAPOR OR FUMES. TO MINIMIZE RISK OF OVEREXPOSURE TO DUST, VAPOR OR FUMES IT IS RECOMMENDED THAT A LOCAL EXHAUST SYSTEM IS PLACED ABOVE THE EQUIPMENT, AND THAT THE WORKING AREA IS PROPERLY VENTILATED. IF VENTILATION IS INADEQUATE, USE CERTIFIED RESPIRATOR THAT WILL PROTECT AGAINST DUST/MIST.

HANDS

HOT MATERIAL: WEAR HEAT-RESISTANT PROTECTIVE GLOVES THAT ARE ABLE TO WITHSTAND THE TEMPERATURE OF MOLTEN PRODUCT.

COLD MATERIAL: NONE REQUIRED; HOWEVER, USE OF GLOVES IS GOOD INDUSTRIAL PRACTICE.

THE CORRECT CHOICE OF PROTECTIVE GLOVES DEPENDS UPON THE CHEMICALS BEING HANDLED, THE CONDITIONS OF WORK AND USE, AND THE CONDITION OF THE GLOVES (EVEN THE BEST CHEMICALLY RESISTANT GLOVE WILL BREAK DOWN AFTER REPEATED CHEMICAL EXPOSURES). MOST GLOVES PROVIDE ONLY A SHORT TIME OF PROTECTION BEFORE THEY MUST BE DISCARDED AND REPLACED. BECAUSE SPECIFIC WORK ENVIRONMENTS AND MATERIAL HANDLING PRACTICES VARY, SAFETY PROCEDURES SHOULD BE DEVELOPED FOR EACH INTENDED APPLICATION. GLOVES SHOULD THEREFORE BE CHOSEN IN CONSULTATION WITH THE SUPPLIER/MANUFACTURER AND WITH A FULL ASSESSMENT OF THE WORKING CONDITIONS.

CONSULT YOUR SUPERVISOR OR S.O.P. FOR SPECIAL HANDLING DIRECTIONS

CONSULT LOCAL AUTHORITIES FOR ACCEPTABLE EXPOSURE LIMITS.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE

ODOR

COLOR

MELTING POINT / RANGE

SPECIFIC GRAVITY

DENSITY

SOLUBILITY

GRANULAR SOLID. PELLETS. POWDER OR FLAKES SOLID.
ODORLESS.

WHITE, TRANSLUCENT OR COLORLESS.

110 TO 135 DEG C

0.93 TO 0.97

PELLET DENSITY: 930-970 KG/M3 (0.930 TO 0.970 G/CM3)

INSOLUBLE

10. STABILITY AND REACTIVITY

STABILITY AND REACTIVITY

PRODUCT IS STABLE.

CONDITIONS TO AVOID

REPORT NUMBER: 703

MSDS NO: 70433

MAINFRAME UPLOAD DATE: 09/27/07

PERFORMANCE POLYMERS
MATERIAL SAFETY DATA SHEET

PAGE: 007

VERSION: 001

PRODUCT: POLYETHYLENE (HDPE) ETHENE-HEXENE-1 COPOLYMER

ORDER NO: 185005
PROD NO : 779607

STABLE UNDER RECOMMENDED STORAGE AND HANDLING CONDITIONS (SEE SECTION: "HANDLING AND STORAGE"). IF HEATED TO MORE THAN 300 DEG C, THE PRODUCT MAY FORM VAPORS OR FUMES WHICH COULD CAUSE IRRITATION OF THE RESPIRATORY TRACT, COUGHING, AND SHORTNESS OF BREATH. AVOID DUSTING WHEN HANDLING AND AVOID ALL POSSIBLE SOURCES OF IGNITION (SPARK OR FLAME). TO AVOID FIRE OR EXPLOSION, DISSIPATE STATIC ELECTRICITY DURING TRANSFER BY GROUNDING AND BONDING CONTAINERS AND EQUIPMENT BEFORE TRANSFERRING MATERIAL.

INCOMPATIBILITY WITH VARIOUS SUBSTANCES
NONE IDENTIFIED.

HAZARDOUS DECOMPOSITION PRODUCTS
THESE PRODUCTS ARE CARBON OXIDES (CO, CO2) (CARBON MONOXIDE, CARBON DIOXIDE). MAY ALSO CONTAIN LOW LEVELS OF ALDEHYDES, KETONES, ORGANIC ACIDS OR HYDROCARBONS.

HAZARDOUS POLYMERIZATION
WILL NOT OCCUR.

11 TOXICOLOGICAL INFORMATION

CHRONIC TOXICITY

CARCINOGENIC EFFECTS

NO COMPONENT OF THIS PRODUCT AT LEVELS GREATER THAN 0.1% IS IDENTIFIED AS A CARCINOGEN BY ACGIH OR THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC). NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN 0.1% IS IDENTIFIED AS A CARCINOGEN BY THE U.S. NATIONAL TOXICOLOGY PROGRAM (NTP) OR THE U.S. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).

MUTAGENIC EFFECTS

NO COMPONENT OF THIS PRODUCT AT LEVELS GREATER THAN 0.1% IS CLASSIFIED BY ESTABLISHED REGULATORY CRITERIA AS A MUTAGEN.

REPRODUCTIVE EFFECTS

NO COMPONENT OF THIS PRODUCT AT LEVELS GREATER THAN 0.1% IS CLASSIFIED BY ESTABLISHED REGULATORY CRITERIA AS A REPRODUCTIVE TOXIN.

TERATOGENIC EFFECTS

NO COMPONENT OF THIS PRODUCT AT LEVELS GREATER THAN 0.1% IS CLASSIFIED BY ESTABLISHED REGULATORY CRITERIA AS TERATOGENIC OR EMBRYOTOXIC.

2. ECOLOGICAL INFORMATION

TOXICITY

NO TESTING HAS BEEN PERFORMED BY THE MANUFACTURER.

REPORT NUMBER: 703

MSDS NO: 70433

MAINFRAME UPLOAD DATE: 09/27/07

PERFORMANCE POLYMERS
MATERIAL SAFETY DATA SHEET

PAGE: 008

VERSION: 001

PRODUCT: POLYETHYLENE (HDPE) ETHENE-HEXENE-1 COPOLYMER

ORDER NO: 185005
PROD NO : 779607

PERSISTENCE/DEGRADABILITY
NOT INHERENTLY BIODEGRADABLE (POLYMER).

MOBILITY

THIS PRODUCT IS LIGHTER THAN WATER AND WILL FLOAT ON THE SURFACE. THIS PRODUCT IS NOT LIKELY TO MOVE RAPIDLY WITH SURFACE OR GROUNDWATER FLOWS BECAUSE OF ITS LOW WATER SOLUBILITY.

BIOACCUMULATIVE POTENTIAL

THIS PRODUCT IS NOT EXPECTED TO BIOACCUMULATE THROUGH FOOD CHAINS IN THE ENVIRONMENT.

OTHER ECOLOGICAL INFORMATION

WILDLIFE MAY INGEST PLASTIC PELLETS OR BAGS. ALTHOUGH NOT TOXIC, SUCH MATERIALS MAY PHYSICALLY BLOCK THE DIGESTIVE SYSTEM, CAUSING STARVATION OR DEATH.

13. DISPOSAL CONSIDERATIONS

WASTE INFORMATION

RECYCLE TO PROCESS, IF POSSIBLE. AVOID CONTACT OF SPILLED MATERIAL AND RUNOFF WITH SOIL AND SURFACE WATERWAYS. CONSULT AN ENVIRONMENTAL PROFESSIONAL TO DETERMINE IF LOCAL, REGIONAL OR NATIONAL REGULATIONS WOULD CLASSIFY SPILLED OR CONTAMINATED MATERIALS AS HAZARDOUS WASTE. USE ONLY APPROVED TRANSPORTERS, RECYCLERS, TREATMENT, STORAGE OR DISPOSAL FACILITIES. DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND NATIONAL REGULATIONS.

CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS HAZARDOUS FOR TRANSPORT (DOT, TDG, IMO/IMDG, IATA/ICAO)

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

US INVENTORY (TSCA): IN COMPLIANCE.

THIS PRODUCT IS NOT REGULATED UNDER SECTION 302 OF SARA AND 40 CFR PART 355.

THIS PRODUCT DOES NOT CONTAIN ANY HAZARDOUS INGREDIENTS AT OR ABOVE REGULATED THRESHOLDS.

SARA 313

FORM R - REPORTING REQUIREMENTS

THIS PRODUCT DOES NOT CONTAIN ANY HAZARDOUS INGREDIENTS AT OR ABOVE REGULATED

REPORT NUMBER: 703

MSDS NO: 70433

MAINFRAME UPLOAD DATE: 09/27/07

PERFORMANCE POLYMERS
MATERIAL SAFETY DATA SHEET

PAGE: 009

VERSION: 001

PRODUCT: POLYETHYLENE (HDPE) ETHENE-HEXENE-1 COPOLYMER

ORDER NO: 185005

PROD NO : 779607

THRESHOLDS.

SUPPLIER NOTIFICATION

THIS PRODUCT DOES NOT CONTAIN ANY HAZARDOUS INGREDIENTS AT OR ABOVE REGULATED THRESHOLDS.

CERCLA SECTIONS 102A/103 HAZARDOUS SUBSTANCES (40 CFR PART 302.4):: THIS MATERIAL IS NOT REGULATED UNDER CERCLA SECTIONS 103 AND 107.

STATE REGULATIONS NO PRODUCTS WERE FOUND.

CALIFORNIA PROP 65: NO PRODUCTS WERE FOUND

INVENTORIES

AUSTRALIAN INVENTORY (AICS): IN COMPLIANCE.

CANADA INVENTORY (DSL): IN COMPLIANCE.

CHINA INVENTORY (IECS): IN COMPLIANCE.

EC INVENTORY (EINECS): IN COMPLIANCE. (POLYMER, EXEMPT FROM LISTING.)

JAPAN INVENTORY (ENCS): IN COMPLIANCE.

KOREA INVENTORY (ECL): IN COMPLIANCE.

PHILIPPINE INVENTORY (PICCS): IN COMPLIANCE.

16. OTHER INFORMATION

LABEL REQUIREMENTS

THIS PRODUCT HAS BEEN EVALUATED AND DOES NOT REQUIRE ANY HAZARD WARNING ON THE LABEL UNDER ESTABLISHED REGULATORY CRITERIA.

HAZARDOUS MATERIAL INFORMATION (U.S.A.)

HEALTH: 0

FLAMMABILITY: 1

PHYSICAL HAZARD: 0

PERSONAL PROTECTION: X

NATIONAL PROTECTION ASSOCIATION NFPA (U.S.A.)

HEALTH: 0

FIRE HAZARD: 1

INSTABILITY: 0

SPECIFIC HAZARD:

REPORT NUMBER: 703

MSDS NO: 70433

MAINFRAME UPLOAD DATE: 09/27/07

PERFORMANCE POLYMERS

MATERIAL SAFETY DATA SHEET

PAGE: 010

VERSION: 001

PRODUCT: POLYETHYLENE (HDPE) ETHENE-HEXENE-1 COPOLYMER

ORDER NO: 185005

PROD NO : 779607

----- FOR ADDITIONAL INFORMATION -----

CONTACT:

PP-LQ LEOMINSTER

DURING BUSINESS HOURS,

08/13/08 11:42

PRODUCT: 779607

CUST NO: 582340

ORDER NO: 185005

----- NOTICE -----

***** PERFORMANCE POLYMERS ("PPI"), EXPRESSLY DISCLAIMS

ALL EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A

PARTICULAR PURPOSE, WITH RESPECT TO THE PRODUCT OR INFORMATION PROVIDED

HEREIN, AND SHALL UNDER NO CIRCUMSTANCES BE LIABLE FOR INCIDENTAL OR

CONSEQUENTIAL DAMAGES. **

DO NOT USE INGREDIENT INFORMATION AND/OR PERCENTAGES IN THIS MSDS AS A
PRODUCT SPECIFICATION. FOR PRODUCT SPECIFICATION INFORMATION REFER TO A PRODUCT
SPECIFICATION SHEET AND/OR A CERTIFICATE OF ANALYSIS. THESE CAN BE OBTAINED FROM
YOUR LOCAL PPI SALES OFFICE.

ALL INFORMATION APPEARING HEREIN IS BASED UPON DATA OBTAINED FROM THE
MANUFACTURER AND/OR RECOGNIZED TECHNICAL SOURCES. WHILE THE INFORMATION IS
BELIEVED TO BE ACCURATE, PPI MAKES NO REPRESENTATIONS AS TO ITS ACCURACY OR
SUFFICIENCY. CONDITIONS OF USE ARE BEYOND PPI'S CONTROL AND THEREFORE USERS
ARE RESPONSIBLE TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS TO
DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PARTICULAR PURPOSES AND THEY
ASSUME ALL RISKS OF THEIR USE, HANDLING, AND DISPOSAL OF THE PRODUCT, OR FROM
THE PUBLICATION OR USE OF, OR RELIANCE UPON, INFORMATION CONTAINED HEREIN.
THIS INFORMATION RELATES ONLY TO THE PRODUCT DESIGNATED HEREIN, AND DOES NOT
RELATE TO ITS USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY OTHER
PROCESS.

* * * E N D O F M S D S * * *