

Common Name: LDPE HOMOPOLYMER (ALL GRADES)

Manufacturer: EXXON MOBIL

SDS Revision Date: 5/14/2002

SDS Format: No Format Specified

Grainger Item Number(s): 4JX85, 4JX86, 4JX87, 4JX88, 4JX89, 4JX90, 4JX91, 4JX92

Manufacturer Model Number(s): B106, B204, B206, C104, C106, C204, C206, C8415, C844

MATERIAL SAFETY DATA SHEET

EXXONMOBIL CHEMICAL COMPANY

A DIVISION OF EXXONMOBIL CORPORATION

DATE PREPARED: MAY 14, 2002

MSDS NO.: 87000000

EXXONMOBIL LDPE HOMOPOLYMER (ALL GRADES)

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EXXONMOBIL LDPE HOMOPOLYMER (ALL GRADES)

CHEMICAL NAME:
POLYETHYLENE
9002-88-4

CHEMICAL FAMILY: ETHYLENE-BASED POLYMER

PRODUCT DESCRIPTION: ODORLESS OPAQUE WHITE PELLETS OR GRANULES.

CONTACT ADDRESS:
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EMERGENCY TELEPHONE NUMBERS: (24 HOURS)
CHEMTREC: (800) 424-9300
EXXONMOBIL CHEMICAL COMPANY: (800) 726-2015

NON EMERGENCY TELEPHONE NUMBERS: (8AM-5PM M-F)
FOR GENERAL PRODUCT INFORMATION CALL: (281) 870-6000
FOR HEALTH AND MEDICAL INFORMATION CALL: (281) 870-6884

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

THIS PRODUCT IS NOT HAZARDOUS AS DEFINED IN 29 CFR1910.1200

SECTION 3 HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

EYE CONTACT:

PARTICULATES MAY SCRATCH EYE SURFACES/CAUSE MECHANICAL IRRITATION.

SKIN CONTACT:

NEGLIGIBLE HAZARD AT AMBIENT TEMPERATURES (-18 TO +38 DEGREES C
0 TO 100 DEGREES F).

EXPOSURE TO HOT MATERIAL MAY CAUSE THERMAL BURNS.

INHALATION:

NEGLIGIBLE HAZARD AT AMBIENT TEMPERATURE (-18 TO 38 DEG C; 0 TO 100 DEG F)
VAPORS AND/OR AEROSOLS WHICH MAY BE FORMED AT ELEVATED TEMPERATURES MAY BE
IRRITATING TO EYES AND RESPIRATORY TRACT.

INGESTION: MINIMAL TOXICITY.

SECTION 4 FIRST AID MEASURES

EYE CONTACT:

THIS PRODUCT IS AN INERT SOLID. IF IN EYE, REMOVE AS ONE WOULD ANY FOREIGN
OBJECT.

SKIN CONTACT:

FOR HOT PRODUCT, IMMEDIATELY IMMERSE IN OR FLUSH THE AFFECTED AREA WITH
LARGE AMOUNTS OF COLD WATER TO DISSIPATE HEAT. COVER WITH CLEAN COTTON
SHEETING OR GAUZE AND GET PROMPT MEDICAL ATTENTION. NO ATTEMPT SHOULD BE
MADE TO REMOVE MATERIAL FROM SKIN OR TO REMOVE CONTAMINATED CLOTHING, AS
THE DAMAGED FLESH CAN BE EASILY TORN.

INHALATION:

IN CASE OF ADVERSE EXPOSURE TO VAPORS AND/OR AEROSOLS FORMED AT ELEVATED
TEMPERATURES, IMMEDIATELY REMOVE THE AFFECTED VICTIM FROM EXPOSURE.
ADMINISTER ARTIFICIAL RESPIRATION IF BREATHING IS STOPPED. KEEP AT REST.
CALL FOR PROMPT MEDICAL ATTENTION.

INGESTION: FIRST AID IS NORMALLY NOT REQUIRED.

SECTION 5 FIRE-FIGHTING MEASURES

FLASH POINT: 649 DEG F.

METHOD:

ASTM E136 NOTE: ESTIMATED MINIMUM

FLAMMABLE LIMITS:

NOTE: NOT APPLICABLE

AUTOIGNITION TEMP.: 649 DEG F.

NOTE: ESTIMATED MINIMUM

GENERAL HAZARD:

SOLID MATERIAL, MAY BURN AT OR ABOVE THE FLASHPOINT, AND AIRBORNE DUST MAY EXPLODE IF IGNITED.

IF THERMALLY DECOMPOSED, FLAMMABLE/TOXIC GASES MAY BE RELEASED.

TOXIC GASES WILL FORM UPON COMBUSTION.

STATIC DISCHARGE, MATERIAL CAN ACCUMULATE STATIC CHARGES WHICH CAN CAUSE AN INCENDIARY ELECTRICAL DISCHARGE.

FIRE FIGHTING:

RESPIRATORY AND EYE PROTECTION REQUIRED FOR FIRE FIGHTING PERSONNEL.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS:

UNDER OXYGEN LEAN CONDITIONS, CARBON MONOXIDE (CO) AND IRRITATING SMOKE MAY BE PRODUCED.

SECTION 6 ACCIDENTAL RELEASE MEASURES

LAND SPILL:

RECOVER SPILLED MATERIAL AND PLACE IN SUITABLE CONTAINERS FOR RECYCLE OR DISPOSAL. CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO LOCAL DISPOSAL REGULATIONS.

WATER SPILL:

PLASTIC PELLETS ARE DEFINED BY THE US EPA UNDER THE CLEAN WATER ACT (40CFR122.26) AS A "SIGNIFICANT MATERIAL" WHICH REQUIRES ANY INDUSTRIAL PLANT THAT MAY EXPOSE PELLETS TO STORM WATER TO SECURE A STORM WATER PERMIT. VIOLATIONS OF THE RULE CARRY THE SAME PENALTIES AS OTHER CLEAN WATER ACT VIOLATIONS. PELLETS FOUND IN STORM WATER RUNOFF ARE SUBJECT TO EPA REGULATIONS WITH THE POTENTIAL FOR SUBSTANTIAL FINES AND PENALTIES. SKIN FROM SURFACE.

CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO LOCAL DISPOSAL REGULATIONS.

RECOVER THE SPILLED MATERIAL AND PLACE IN SUITABLE CONTAINERS FOR RECYCLE OR DISPOSAL.

SECTION 7 STORAGE AND HANDLING

ELECTROSTATIC ACCUMULATION HAZARD:

YES, USE PROPER BONDING AND/OR GROUNDING PROCEDURE.

STORAGE TEMPERATURE, DEG F: AMBIENT

LOADING/UNLOADING TEMPERATURE, DEG F: AMBIENT

STORAGE/TRANSPORT PRESSURE, MMHg: ATMOSPHERIC

LOADING/UNLOADING VISCOSITY, CST: SOLID

STORAGE AND HANDLING:

KEEP CONTAINER CLOSED. HANDLE AND OPEN CONTAINERS WITH CARE. STORE IN A COOL, WELL VENTILATED PLACE AWAY FROM INCOMPATIBLE MATERIALS.

DO NOT HANDLE OR STORE NEAR AN OPEN FLAME, HEAT OR OTHER SOURCES OF IGNITION.

PROTECT MATERIAL FROM DIRECT SUNLIGHT.

MATERIAL WILL ACCUMULATE STATIC CHARGES WHICH MAY CAUSE AN ELECTRICAL SPARK (IGNITION SOURCE). USE PROPER BONDING AND/OR GROUNDING PROCEDURES.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS:

LOCAL EXHAUST VENTILATION OF PROCESS EQUIPMENT MAY BE NEEDED TO CONTROL PARTICULATE EXPOSURES TO BELOW THE RECOMMENDED EXPOSURE LIMIT. SEE PERSONAL PROTECTION RECOMMENDATIONS.

PERSONAL PROTECTION:

FOR OPEN SYSTEMS AT AMBIENT TEMPERATURE (-18 TO 38 DEGREES C) WHERE CONTACT IS LIKELY, WEAR SAFETY GLASSES WITH SIDE SHIELDS.

WHERE CONTACT MAY OCCUR WITH HOT MATERIAL, WEAR THERMAL RESISTANT GLOVES, ARM PROTECTION, AND A FACE SHIELD.

WORKPLACE EXPOSURE GUIDELINES:

OSHA REGULATION 29CFR1910.1000 REQUIRES THE FOLLOWING PERMISSIBLE

EXPOSURE LIMITS:

5 MG/M3 (RESPIRABLE DUST), AND 15 MG/M3 (TOTAL DUST) BASED ON THE OSHA PEL FOR NUISANCE DUST.

THE RECOMMENDED PERMISSIBLE EXPOSURE LEVELS INDICATED ABOVE REFLECT THE LEVELS REVISED BY OSHA IN 1989 OR IN SUBSEQUENT REGULATORY ACTIVITY.

ALTHOUGH THE 1989 LEVELS HAVE SINCE BEEN VACATED BY THE 11TH CIRCUIT COURT OF APPEALS, EXXONMOBIL CHEMICAL COMPANY RECOMMENDS THAT THE LOWER EXPOSURE LEVELS BE OBSERVED AS REASONABLE WORKER PROTECTION.

THE ACGIH RECOMMENDS THE FOLLOWING THRESHOLD LIMIT VALUES:

A TWA OF 10 MG/M3 FOR INHALABLE PARTICULATE (TOTAL DUST) AND A TWA OF 3 MG/M3 FOR RESPIRABLE PARTICULATE (TOTAL DUST) FOR PARTICULATES NOT OTHERWISE CLASSIFIED (PNOC).

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY AT DEG F: 0.92 - 0.970

VAPOR PRESSURE, MMHg AT DEG F: NOT APPLICABLE

SOLUBILITY IN WATER, WT. % AT DEG F: INSOLUBLE

VISCOSITY OF LIQUID, CST AT DEG F: NOT APPLICABLE

SP. GRAV. OF VAPOR, AT 1 ATM (AIR = 1): NOT APPLICABLE

FREEZING/MELTING POINT, DEG F: 225 TO 229 DEG F

EVAPORATION RATE, n-BU ACETATE = 1: NOT APPLICABLE

BOILING POINT, DEG F: NOT APPLICABLE

SECTION 10 STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID INSTABILITY:

TEMPERATURES OVER 650 F (343 C) MAY CAUSE RESIN DEGRADATION.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID HAZARDOUS POLYMERIZATION: NOT APPLICABLE

MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY:

FLUORINE

STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS: FLAMMABLE HYDROCARBONS

SECTION 11 TOXICOLOGICAL INFORMATION

PLEASE REFER TO SECTION 3 FOR AVAILABLE INFORMATION ON POTENTIAL HEALTH EFFECTS.

SECTION 12 ECOLOGICAL INFORMATION

NO SPECIFIC ECOLOGICAL DATA ARE AVAILABLE FOR THIS PRODUCT. PLEASE REFER TO SECTION 6 FOR INFORMATION REGARDING ACCIDENTAL RELEASES AND SECTION 15 FOR REGULATORY REPORTING INFORMATION.

SECTION 13 DISPOSAL CONSIDERATIONS

PLEASE REFER TO SECTIONS 5, 6 AND 15 FOR DISPOSAL AND REGULATORY INFORMATION.

SECTION 14 TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT): THIS PRODUCT IS NOT DOT REGULATED.

SECTION 15 REGULATORY INFORMATION

TSCA:

THIS PRODUCT IS LISTED ON THE TSCA INVENTORY AT CAS REGISTRY NUMBER 9002-88-4

CERCLA:

IF THIS PRODUCT IS ACCIDENTALLY SPILLED, IT IS NOT SUBJECT TO ANY SPECIAL REPORTING UNDER THE REQUIREMENTS OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT. WE RECOMMEND YOU CONTACT LOCAL AUTHORITIES TO DETERMINE IF THERE MAY BE OTHER LOCAL REPORTING REQUIREMENTS.

SARA TITLE III:

UNDER THE PROVISIONS OF TITLE III, SECTIONS 311/312 OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT, THIS PRODUCT IS CLASSIFIED INTO THE FOLLOWING HAZARD CATEGORIES:

NOT HAZARDOUS.

THIS PRODUCT DOES NOT CONTAIN SECTION 313 REPORTABLE INGREDIENTS.

SECTION 16 OTHER INFORMATION

NOTES:

NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS NFPA 654 AND 68 INDICATE POSSIBLE EXPLOSION HAZARD OF DUST PARTICLES. CONFORM ACCORDINGLY.

AVOID ACCUMULATION OF DUST OR DUST CLOUDS; OPERATE HANDLING AND STORAGE SYSTEMS LEAK FREE, PRACTICE GOOD HOUSEKEEPING.

KEEP FROM SOURCES OF IGNITION. DO NOT STORE NEAR HEAT, FLAME, OR STRONG OXIDANTS.

ASSURE PROPER ELECTRICAL GROUNDING OF ALL HANDLING EQUIPMENT.

FOR MORE INFORMATION SEE "GUIDE FOR HANDLING AND STORAGE OF ESCORENE POLYETHYLENE RESINS."

PRODUCT MAY ALSO CONTAIN VARYING LEVELS OF ADDITIVES, SUCH AS SLIP AND ANTIBLOCKING AGENTS (TALC OR SILICA), ANTIOXIDANTS, STABILIZERS, AND CORROSION INHIBITORS. CERTAIN GRADES MAY CONTAIN CRISTOBALITE, A FORM OF CRYSTALLINE SILICA, AS AN ADDITIVE THAT IS ENCAPSULATED IN THE POLYMER. INHALED CRYSTALLINE SILICA IN AN OCCUPATIONAL ENVIRONMENT HAS BEEN CLASSIFIED AS A GROUP 1 HUMAN CARCINOGEN BY THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER. HOWEVER, EXXONMOBIL CHEMICAL COMPANY HAS ASSESSED THE

POTENTIAL FOR RELEASE OF SILICA TO THE AIR WHEN THIS POLYMER IS HANDLED AND HAS DETERMINED THAT SILICA ENCAPSULATED IN THIS POLYMER IS NOT EXPECTED TO POSE A HEALTH HAZARD WHEN PROCESSED UNDER NORMAL CONDITIONS OF USE.

SPECIAL PRECAUTIONS:

SHOULD SIGNIFICANT VAPORS/FUMES BE GENERATED DURING THERMAL PROCESSING OF THIS PRODUCT, IT IS RECOMMENDED THAT WORK STATIONS BE MONITORED FOR THE PRESENCE OF THERMAL DEGRADATION BY-PRODUCTS WHICH MAY EVOLVE AT ELEVATED TEMPERATURES. IT IS RECOMMENDED THAT THE CURRENT ACGIH-TLVS FOR THESE MATERIALS BE OBSERVED. CONTACT YOUR EXXONMOBIL REPRESENTATIVE FOR FURTHER INFORMATION.

HAZARD RATING SYSTEMS:

THIS INFORMATION IS FOR PEOPLE TRAINED IN:
NATIONAL PAINT & COATINGS ASSOCIATION'S (NPCA)
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 704)
IDENTIFICATION OF THE FIRE HAZARDS OF MATERIALS

	NPCA-HMIS	NFPA 704
HEALTH	1	1
FLAMMABILITY	1	1
REACTIVITY	0	0

KEY:

4 = SEVERE
3 = SERIOUS
2 = MODERATE
1 = SLIGHT
0 = MINIMAL

CAUTION:

HMIS RATINGS ARE BASED ON A 0-4 RATING SCALE WITH 1 REPRESENTING MINIMAL HAZARDS OR RISKS, AND 4 REPRESENTING SIGNIFICANT HAZARDS OR RISKS. RECOMMENDED HMIS RATINGS SHOULD NOT BE USED IN THE ABSENCE OF A FULLY IMPLEMENTED HMIS HAZARD COMMUNICATION PROGRAM.

REFERENCE NUMBER: HDHA-K-10103

SUPERSEDES ISSUE DATE:

THIS INFORMATION RELATES TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. SUCH INFORMATION IS TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE AND RELIABLE AS OF THE DATE COMPILED. HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USERS RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE. WE DO NOT ACCEPT LIABILITY FOR ANY LOSS OR DAMAGE THAT MAY OCCUR FROM THE USE OF THIS INFORMATION NOR DO WE OFFER WARRANTY AGAINST PATENT INFRINGEMENT.