



MATERIAL SAFETY DATA SHEET

SECTION 1

MATERIAL IDENTIFICATION

PRODUCT NAME: POLYETHYLENE (ALL GRADES)
CAS REGISTRY NUMBER: 9002-88-4 (BASE POLYMER)
DOT HAZARD CLASS: NOT REGULATED
SHIPPING NAME: POLYMERIC MATERIAL

SECTION 2

OTHER COMPONENTS

MATERIAL: NONE

SECTION 3

FDA STATUS

COMPLIES WITH FDA REGULATIONS 21 CFR 177.1520 © 2.1 AND 2.2, MAY BE USED IN ARTICLES WHICH ARE INTENDED TO CONTACT NON ALCOHOLIC FOODS AT OR BELOW COOKING TEMPERATURES. THE FINISHED FOOD CONTACT ARTICLES MADE WITH THIS GRADE ARE SUBJECT TO CERTAIN ADDITIVE RELATED THICKNESS RESTRICTIONS. CONSULT YOUR DISTRIBUTOR FOR ADDITIONAL INFORMATION.

SECTION 4

SECTION 4:PHYSICAL/CHEMICAL DATA

APPEARANCE: OPAQUE PELLETS
ODOR: MILD HYDROCARBON
MELTING POINT: 125-140 DEGREES CELSIUS
SOLUBILITY IN WATER: NEGLIGIBLE
VOLATILE CONTENT: 0.1% MAXIMUM
SPECIFIC GRAVITY: 0.915-0.980



MATERIAL SAFETY DATA SHEET

SECTION 5

FIRE AND EXPLOSION HAZARD DATA

FLASH IGNITION TEMPERATURE :260 DEGREES CELSIUS

UNUSUAL FIRE, EXPLOSION HAZARDS: THE SOLID POLYMER CAN BE COMBUSTED ONLY WITH GREAT DIFFICULTY. AN ELECTROSTATIC CHARGE CAN POTENTIALLY BUILD UP WHEN POURING PELLETS. GROUNDING OF EQUIPMENT IS RECOMMENDED.

EXTINGUISHING MEDIA: WATER, CARBON DIOXIDE, FOAM, DRY CHEMICAL.

SPECIAL FIRE FIGHTING INSTRUCTIONS: WEAR SELF CONTAINED BREATHING APPARATUS IF EXPOSED TO FUMES.

SECTION 6

HAZARDOUS REACTIVITY

STABILITY AT ROOM TEMPERATURE: STABLE

CONDITIONS TO AVOID: TEMPERATURES ABOVE 230 DEGREES CELSIUS FOR SHORT RESIDENCE TIMES, TEMPERATURES ABOVE 204 DEGREES CELSIUS FOR LONG RESIDENCE TIMES.

MATERIAL TO AVOID: STRONG ACIDS, OXIDIZING AGENTS.

POLYMERIZATION: WILL NOT OCCUR.



MATERIAL SAFETY DATA SHEET

SECTION 7

HEALTH HAZARD

**ROUTES OF ENTRY
SYMPTOMS AND
IMMEDIATE EFFECTS:**

INGESTION: THE ORAL LD-50 IN RATS IS IN EXCESS OF 1000 MILLIGRAMS PER KILOGRAM OF BODY WEIGHT. TWO WEEK FEEDING TESTS WITH DOGS AND RATS SHOWED NO EVIDENCE FOR GROSS PATHOLOGICAL CHANGE. POLYETHYLENE RESINS HAVE LOW TOXICITY.

SKIN: NO DATE IS AVAILABLE. HOWEVER, BASED ON EXPERIENCE WITH HANDLING THESE POLYMERS, NO USUAL DERMATITIS HAZARD IS EXPECTED FROM ROUTINE HANDLING. MOLTEN POLYMER CONTACTING THE SKIN WILL CAUSE THERMAL BURNS.

**EYE:
INHALATION:** MECHANICAL IRRITATION POLYMER IS NOT RESTORABLE AS MARKETED. AT PROCESSING TEMPERATURES ABOVE 204 DEGREES CELSIUS, FUMES IRRITATING TO THE EYES, NOSE, AND THROAT MAY BE PRODUCED. EXPOSURE MAY RESULT IN REDNESS, TEARING AND ITCHING IN THE EYES TOGETHER WITH SORENESS IN THE NOSE AND THROAT WITH COUGHING.

**EMERGENCY
FIRST AID:**

- IF EXPOSED TO FUMES FROM OVERHEATING OR COMBUSTION, MOVE TO FRESH AIR. CONSULT A PHYSICIAN. WASH SKIN WITH SOAP AND PLENTY OF WATER
- WASH EYES WITH WATER.
- IF MOLTEN POLYMER CONTACTS SKIN, COOL RAPIDLY WITH COLD WATER. DO NOT ATTEMPT TO PEEL POLYMER FROM SKIN. OBTAIN MEDICAL ATTENTION FOR THERMAL BURN.

**MEDICAL
CONDITIONS
AGGRAVATED
BY EXPOSURE:** NONE ARE KNOWN.



MATERIAL SAFETY DATA SHEET

SECTION 8

PROTECTION INFORMATION

- EYE:** EYE PROTECTION IS RECOMMENDED AS GOOD INDUSTRIAL HYGIENE PRACTICE.
- RESPIRATOR:** A RESPIRATOR IS NOT NEEDED OF LOCAL VENTILATION IS ADEQUATE.
- VENTILATION:** LOCAL VENTILATION MUST BE USED OVER PROCESSING EQUIPMENT TO MAINTAIN VINYL ACETATE CONCENTRATION IN THE AIR BELOW 10PPM.

SECTION 9

DISPOSAL

- SPILL, LEAK, OR RELEASE:** SWEEP UP TO AVOID SLIPPING HAZARD.
- WASTE DISPOSAL:** LANDFILL OR INCINERATION IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

SECTION 10

AQUATIC TOXICITY

NO DATA BUT TOXICITY IS EXPECTED TO BE LOW BASED ON NEGLIGIBLE WATER SOLUBILITY OF THE RESIN.

SECTION 11

STORAGE

STORE IN A COOL DRY PLACE. KEEP CONTAINERS ENCLOSED TO PREVENT CONTAMINATION.



MATERIAL SAFETY DATA SHEET

SECTION 12

STATE RIGHT TO KNOW LAWS

NO SUBSTANCES ON THE STATE HAZARDOUS SUBSTANCE LIST, FOR THE STATES INDICATED BELOW, ARE USED IN THE MANUFACTURE OF PRODUCTS ON THIS MATERIAL SAFETY DATA SHEET, WITH THE EXCEPTIONS AS INDICATED. WHILE WE DO NOT SPECIFICALLY ANALYZE THESE PRODUCTS OR THE RAW MATERIALS USED IN THEIR MANUFACTURE, FOR SUBSTANCES ON VARIOUS STATE HAZARDOUS SUBSTANCE LISTS, TO THE BEST OF OUR KNOWLEDGE THE PRODUCTS ON THE MATERIAL SAFETY

DATA SHEET CONTAIN NO SUCH SUBSTANCES EXCEPT AS

SECTION 9

LISTED BELOW:

SUBSTANCES ON THE PENNSYLVANIA HAZARDOUS SUBSTANCES LIST PRESENT AT A CONCENTRATION OF 1% OR MORE:NONE

SECTION 10

SUBSTANCES ON THE PENNSYLVANIA SPECIAL HAZARDOUS SUBSTANCES LIST AT A PRESENT CONCENTRATION OF 0.01% OR MORE: NONE KNOWN

NON-HAZARDOUS INGREDIENTS PRESENT AT A CONCENTRATION OF 3% OR MORE REQUIRED TO BE LISTED BY PENNSYLVANIA:SINCE THIS PRODUCT CONTAINS NO HAZARDOUS SUBSTANCES AS DEFINED BY PENNSYLVANIA R-T-K REGULATIONS, A MSDS IS NOT REQUIRED.

SECTION 11

WARNING:SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER:NONE

WARNING:SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM:NONE

DATE OF LAST REVISION
JULY 30, 2001