



ARJOWIGGINS

MATERIAL SAFETY DATA SHEET

POLYART

Biaxially oriented Polyethylene film

Date Prepared: 10/10/97

MSDS No.: AA001

SECTION 1 PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME: POLYART

CHEMICAL NAME: Polyethylene

CHEMICAL FAMILY: Ethylene-based Polymer.

PRODUCT DESCRIPTION: Odorless opaque white film with a Clay coating.

COMPOSITION:

Polyolefins	60 - 70%
Pigments	10 - 20%
Additives	10 - 20%

SECTION 2 HAZARDOUS INGREDIENT INFORMATION

This product is not hazardous as defined in 29 CFR1910.1200

SECTION 3 HAZARDS IDENTIFICATION

EYE CONTACT

Particulates may scratch eye surfaces / cause mechanical irritation.

SKIN CONTACT

Negligible hazard at ambient temperatures (-18°C to +38°C; 0°F to 100°F).

INHALATION

Negligible hazard at ambient temperatures (-18°C to +38°C; 0°F to 100°F).
Vapors and/or aerosols, which may be formed at elevated temperatures, may be irritating to eyes and respiratory tract.
Low order of toxicity.

INGESTION

Minimal toxicity.

....contd.

SECTION 4 FIRST AID MEASURES

EYE CONTACT

This product is inert. If in eye, remove as one would any foreign object.

SKIN CONTACT

Cold product poses no danger.

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, as the damaged flesh can easily be torn. Seek medical attention after first aid.

INGESTION

First aid is normally not required. Seek medical attention.

SECTION 5 FIRE FIGHTING MEASURES

MELTING POINT

Melting point of the base resin is 130° - 135°C (266 - 275°F)

FLASHPOINT/AUTOIGNITION TEMPERATURE

The self-ignition temperature of HDPE is 350°C (662°F) and that of Polyart should be similar, although it has not been measured.

GENERAL HAZARD

Solid material, may burn at or above flashpoint.

Decomposition will begin at about 300°C (572°F), to produce carbon dioxide, carbon monoxide, water plus various hydrocarbons and aldehydes. The evolved gases may ignite and give rise to soot.

Static discharge, material can accumulate static charges, which can cause an incendiary electrical discharge.

FIRE FIGHTING

Use water spray to cool fire-exposed surfaces, protect personnel and extinguish fire.

SECTION 6 STORAGE AND HANDLING

ELECTROSTATIC ACCUMULATION HAZARD

Might accumulate static charge. Store in contact with ground to dissipate charge.

STORAGE TEMPERATURE

Ambient.

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SECTION 7 EXPOSURE CONTROL/PERSONAL PROTECTION

EXPOSURE CONTROL

For storage and ordinary handling, general ventilation is adequate.

PERSONAL PROTECTION

Skin protection : No special equipment recommended.

Eye protection : No special equipment recommended..

SECTION 8 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	White opaque film.
PHYSICAL STATE:	Solid.
MOLECULAR WT.:	>20,000
CHEMICAL FORMULA:	(CH ₂ -CH ₂) _n
ODOR:	None
SPECIFIC GRAVITY:	0.75 - 0.85 g/cc (Water = 1.00)
SOLUBILITY IN WATER:	Insoluble
BOILING POINT:	Not applicable
MELTING POINT:	120 - 135°C (248 - 275°F).
FLASH POINT:	350°C.
VAPOR PRESSURE:	Non-volatile
VAPOR DENSITY:	Non-volatile
EVAPORATION RATE:	Non-volatile
%VOLATILES:	Non-volatile

SECTION 9 STABILITY AND REACTIVITY

NORMALLY STABLE

Yes.

INCOMPATIBILITIES

Attacked by oxidizing agents such as nitric acid and perchloric acid and free halogens. Also softened by hydrocarbons such as benzene, petroleum ether, and chlorinated hydrocarbons.

HAZARDOUS DECOMPOSITION PRODUCTS

Combustion products include Carbon Monoxide, Carbon dioxide. Ignitable gases can be generated at temperatures over 340°C (644°F).

SECTION 10 TOXICOLOGICAL INFORMATION

IMMEDIATE (ACUTE) EFFECTS

Not determined.

DELAYED(SUBCHRONIC & CHRONIC) EFFECTS

Not determined.

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SECTION 11 DISPOSAL CONSIDERATIONS

RCRA

If discarded, this product is not considered as a RCRA hazardous waste.

OTHER DISPOSAL CONSIDERATIONS

Discard as non-hazardous solid waste.