

**MSDS**  
(MATERIAL SAFETY DATA SHEET)  
POLYVINYL CHLORIDE FILM and SHEETS

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Version: E1.00  
Issued Date: 2008/01/02

**SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PRODUCT AND OF THE COMPANY.**

MANUFACTURER'S NAME: INDUSTRIAS PLASTICAS INTERNACIONALES, S.A. de C.V.  
MANUFACTURER'S ADDRESS: CALLE 6 N° 32 XALOSTOC,  
ECATEPEC, 55340, MEXICO  
TELEPHONE: (52)(55) 5755-3555  
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**SECTION 2. COMPOSITION INFORMATION ON INGREDIENTS.**

GENERIC DESCRIPTION: RIGID/FLEXIBLE/SEMIRIGID PVC FILM AND SHEET.  
ALTERNATIVE NAMES: RIGID/FLEXIBLE/SEMIRIGID VINYL FILM AND SHEET.  
PHYSICAL FORM: SOLID. (FILM AND SHEET).  
MAIN INGREDIENT: HOMOPOLYMER OF POLYVINYL CHLORIDE.  
ADDITIVES ON THE FORMULATION ARE SANCTIONED BY FDA AND COULD BE USED AS ADJUVANTS FOR PRODUCTS INTENDED TO BE IN CONTACT WITH FOOD.  
THE FORMULATION DOES NOT CONTAIN HAZARDOUS INGREDIENTS ACCORDING TO E.E.C. DIRECTIVE 91/155 AND SUCESIVE AMENDMENTS.  
THE FORMULATION DOES NOT CONTAIN HEAVY METALS OR POLYBROMINATED BIPHENYLS OR POLYBROMINATED BIPHENYLS ETHERS.  
COLOR: VARIOUS. (COLORLESS, TINTED, OPAQUE)  
ODOR: CHARACTERISTIC ODOR  
VINYL CHLORIDE MONOMER CONTENT:  
NEGLIGIBLE. (LESS THAN ONE PART PER BILLION OR 0.1 MILLIGRAM PER KILOGRAM, )

**SECTION 3. HAZARD IDENTIFICATION.**

**POTENTIAL HEALTH EFFECTS**

**ACUTE EFFECTS.**

EYE: NA  
SKIN: NA  
INHALATION: NA  
ORAL: NA

**PROLONGED/REPEATED EXPOSURE EFFECTS.**

SKIN: NA  
INHALATION: NA  
ORAL: NA

**SIGNS AND SYMPTOMS OF OVEREXPOSURE.**

NO KNOWN APPLICABLE INFORMATION.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE.**

NO KNOWN APPLICABLE INFORMATION.

**E.E.C. DIRECTIVES.**

ACCORDING TO DIRECTIVE E.E.C. 88/379 PVC FILM IS NOT CLASSIFIED AS A HAZARDOUS SUBSTANCE

THE ABOVE LISTED POTENTIAL EFFECTS ARE BASED ON ACTUAL DATA RESULTS OF STUDIES PERFORMED UPON SIMILAR FORMULATIONS, COMPONENT DATA, AND/OR EXPERT REVIEWS OF THE PRODUCT.

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**SECTION 4. FIRST-AID MEASURES**

EYE: NA  
SKIN: NO KNOWN APPLICABLE INFORMATION.  
INHALATION: NO KNOWN APPLICABLE INFORMATION.  
ORAL: NA

**SECTION 5. FIRE FIGHTING MEASURES.**

FLASH POINT: NA

AUTOIGNITION TEMPERATURE: NO KNOWN APPLICABLE INFORMATION.

FLAMMABILITY LIMITS IN AIR: NA

**RISK SPECIFICATIONS:**

PVC IS AUTO-EXTINGUISH. IF THERE ARE FLAMES NEAR, THE PVC WILL CATCH FIRE, BUT IF THE FLAMES ARE REMOVED THE COMBUSTION CEASES.

COMBUSTION OR THERMAL DECOMPOSITION IS IRRITATING AND VAPORS ARE TOXIC.

**APPROPRIATE EXTINGUISHING AGENTS:**

DRY CHEMICALS, FOAM, SPRAY WATER, CARBON DIOXIDE (CO2).

**UNSUITABLE EXTINGUISHING AGENTS:**

STREAM WATER.

**RISKS DURING COMBUSTION:**

AVOID BREATHING THE SMOKE.

**FIREFIGHTING MEASURES:**

SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING LARGE FIRES INVOLVING CHEMICALS OR PLASTICS.

USE WATER SPRAYS TO KEEP MATERIALS AND FIRE-EXPOSED CONTAINERS COOL. DETERMINE THE NEED TO EVACUATE OR ISOLATE THE AREA ACCORDING TO YOUR LOCAL EMERGENCY PLAN.

UNUSUAL FIRE HAZARDS: NONE.

**SECTION 6. ACCIDENTAL RELEASE MEASURES.**

INDIVIDUAL PRECAUTIONS: NA

ENVIRONMENT PRECAUTIONS: NA

CONTAINMENT CLEAN UP: NA

**HANDLING AND STORAGE:**

HANDLING PRECAUTIONS: AVOID ACCUMULATION OF ELECTROSTATIC CHARGES.

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**SECTION 7. HANDLING AND STORAGE CONDITIONS:**

**AVOID THE SUNLIGHT. STORAGE IN ROOMS WITH ADEQUATE VENTILATION.**

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION.**

**EXPOSURE LIMITS:                    THERE IS NO EVIDENCE OF RISK.  
NO KNOWN APPLICABLE INFORMATION.**  
**PRECAUTION MEASURES:            NO KNOWN APPLICABLE INFORMATION.**

**SECTION 9. PROPIEDADES FISICAS Y QUIMICAS**

**PHYSICAL STATE:                    SOLID.**  
**PHYSICAL FORM:                    FILM/SHEET/ROLL**  
**CHANGE IN APPEARANCE:         CHANGES COLOR (FADES) IN EXPOSURE TO LIGHT.**  
**ODOR:                                  CHARACTERISTIC ODOR**  
**BOILING POINT:                    NA**  
**MELTING POINT:                    186°C**  
**VAPOR PRESSURE:                   NA**  
**VAPOR DENSITY:                    NA**  
**SPECIFIC GRAVITY:                 1.35-1.38 g/cm<sup>3</sup>**  
**WATER SOLUBILITY:                INSOLUBLE**  
**SOLUBILITY:                         CYCLOHEXANE, TETRAHYDROFURANE.**  
**pH:                                      NA**  
**VOLATILITY:                         NA**

**SECTION 10. STABILITY AND REACTIVITY.**

**REACTIVITY:**  
**STABLE UNDER NORMAL TEMPERATURE AND PRESSURE. OPERATION TEMPERATURE: 45°C**  
**AT TEMPERATURES BELOW 60°C, PVC FILMS OR SHEETS ARE RESISTANT TO ACID OR ALKALI**  
**AQUEOUS SOLUTIONS.**  
**CONDITIONS TO AVOID:    AVOID HEAT, FLAME, SPARKS, AND OTHER SOURCES OF IGNITION.**

**HAZARDOUS DECOMPOSITION PRODUCTS: (THERMAL DECOMPOSITION PRODUCTS)**  
**ACID HALIDES HALOGENATED COMPOUNDS, PHOSGENE, DIOXINES, AND OXIDES OF CARBON.**

**POLYMERIZATION:                 WILL NOT POLYMERIZE.**

**SECTION 11. TOXICOLOGICAL INFORMATION.**

**POLYVINYL CHLORIDE, CARCINOGEN STATUS:**  
**IN HUMANS, NO KNOWN APPLICABLE INFORMATION**  
**IN ANIMALS, NO KNOWN APPLICABLE INFORMATION**  
**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:    NA**

**SECTION 12. ECOLOGICAL INFORMATION.**

**DISPERSION OF THE PRODUCT ON THE ENVIRONMENT:**  
**PVC FILMS AND SHEETS ARE INSOLUBLE IN WATER.**  
**PVC FILMS AND SHEETS ARE INSOLUBLE IN SOIL.**

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**PERSISTENCE AND DEGRADATION:**

PVC FILMS AND SHEETS ARE NOT BIODEGRADABLE.  
PVC FILMS AND SHEETS CAN NOT BE ELIMINATED BY BIOLOGICAL TREATMENT.  
PVC FILMS AND SHEETS ARE NOT COMPOSTABLE.  
THERE IS NO EVIDENCE OF AQUEOUS LIFE ENDANGER.

**SECTION 13. DISPOSAL CONSIDERATIONS:**

DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

**REMARKS:**

PVC FILMS AND SHEETS OF SCRAP ARE 100% RECYCLABLE.

**SECTION 14: REGULATORY INFORMATION FOR TRANSPORTATION:**

POLYVINYL CHLORIDE FILMS AND SHEETS DO NOT HAVE CLASSIFICATION ASSIGNED.  
POLYVINYL CHLORIDE FILMS AND SHEETS ARE NOT CLASSIFIED AS DANGEROUS MATERIALS FOR TRANSPORTATION.

**SECTION 15: REGULATORY INFORMATION:**

PVC FILMS AND SHEETS PACKAGES OR ROLLS MUST HAVE A LABEL WITH THE COMMERCIAL NAME "PVC"

ACCORDING TO EEC DIRECTIVE 88/379, POLYVINYL CHLORIDE IS NOT CLASSIFIED AS DANGEROUS MATERIAL.

**SECTION 16. OTHER INFORMATION.**

PVC FILMS AND SHEETS SHOULD BE HANDLED, STORED, AND USED IN ACCORDANCE WITH GENERALLY ACCEPTED COMMERCIAL AND INDUSTRIAL PRACTICES, AND IN CONFORMITY WITH ALL THE APPLICABLE LEGAL REGULATIONS.

THE INFORMATION PROVIDED HEREIN IS BASED ON THE KNOWLEDGE POSSESSED AT THIS PRESENT TIME FROM THE POINT OF VIEW OF SAFETY REQUIREMENTS.

THEREFORE IT SHOULD NOT BE CONSTRUED AS GUARANTEEING SPECIFIC PROPERTIES.

WE DO NOT ASSUME ANY RESPONSIBILITY FOR LOSS OR DAMAGES AS A RESULT OF HIS USE.

NO IMPLICIT OR EXPLICIT LIABILITIES FOR MISUSE WILL BE ACCEPTED.