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POLYETHYLENE FILM

Section 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: WHITE/CLEAR POLYETHYLENE FILM

Dura-Film®; Milrol®; Thermax; Milrol-2000; CCA; Lastic-Tube®; Agripac®;

Company Address: AT Films

4605-101 Avenue P.O. Box 428

Edmonton, Alberta, Canada

T5J 2K1

Tel: (780) 468-0800

Web: www.atfilmsinc.com

Product Use: Agricultural and Horticultural Films

Section 2

HAZARDS IDENTIFICATION

Emergency Overview:

Appearance: Product is white or clear film. No odour.

Caution: This material is combustible and will burn in fire and emit irritating smoke. Heat – released air emissions may be irritating to the eyes, skin and respiratory system. The film may create a slipping hazard. Molten film can cause severe thermal burns.

This product is not considered hazardous by the OSHA Hazard Communication standard, 29 CFR 1910.1200.

This product is not a controlled product under Canadian WHMIS regulations.

This product is not regulated as a hazardous material for transportation.

Potential Health Effects:

Inhalation: Inhalation is impossible due to its physical nature.

Eyes: Irritation or corneal injury due to mechanical action.

Skin: Prolonged contact is essentially non-irritating to skin. No adverse effects anticipated by skin absorption.

<u>Ingestion:</u> Ingestion is impossible due to its physical nature. Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small pieces. May cause choking if swallowed.

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Section 3 COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Name: Polyethylene (Ethene Homopolymer)

Chemical Family: Polymer

Base Resin CAS#: 9002-88-4

Molecular Formula: [- CH₂ CH₂ -]_n

The product may contain varying levels of proprietary chemical additives.

Section 4 FIRST AID MEASURES

Solid product is neither an irritant nor gives off hazardous vapours at ambient temperatures.

Eyes: The material is non-irritating upon contact, except upon impact as any foreign particle in

the eye.

Skin: Not a hazard at ambient conditions.

Ingestion: Material is not expected to cause an ingestion problem. No first aid procedures are

required. If necessary, get medical advice. Treat symptomatically.

Inhalation: Inhalation is unlikely due to physical form.

Section 5 FIRE FIGHTING MEASURES

Flammable Properties:

Flash Point: Not Applicable

Flash Point Method: Not Applicable

Upper Flammability Limit: Not Applicable

Lower Flammability Limit: Not Applicable

Autoignition Temperature: 330°C – 410°C (Estimated)

Under fire conditions, the film will readily burn and emit a heavy, irritating smoke. Do not permit dust to accumulate, as high concentrations of airborne dust may form explosive mixture with air.

May accumulate static charge.

Combustion products may include and are not limited to carbon

monoxide, carbon dioxide.

Extinguishing Media: Water fog or fine spray, dry chemical fire extinguishers, carbon dioxide fire extinguishers and foam. General purpose synthetic foams (including AFFF type) or protein foams are preferred.

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Fire Fighting Instructions: Keep unnecessary personnel away. Soak thoroughly with water to cool

and prevent re-ignition.

If material is molten, do not apply direct water stream. Use fine water spray or foam. Cool surroundings with water to localize fire zone. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires. Dust explosion hazard may result from forceful application of fire

extinguishing agents.

Protective Equipment for Fire

Fighters:

Wear positive-pressure, self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants,

boots and gloves).

Section 6 ACCIDENTAL RELEASE MEASURES

In the event of an Accidental Release:

Personal Protection: Isolate area. Extinguish or remove possible ignition sources. Collect

rolls for inspection for re- use or disposal.

Environmental Protection: Prevent rolls from entering ditches, sewers, waterways.

Section 7 HANDLING AND STORAGE

Avoid high temperatures, sparks, open flames and all other sources of ignition. Two persons and/or proper handling equipment may be required to handle long rolls. Static discharge may occur while unwinding film.

Storage Temperature (°C): Ambient temperatures.

Storage Requirements: Should be stored under cover to prevent degradation due to

sunlight. Do not damage end of rolls.

Shelf Life: Maximum of five years, if stored properly.

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Section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines: None normally required, as products are used outdoors. The following

exposure limits for particulates (insoluble), not otherwise regulated, are

given for informational purposes only.

ACGIH: 10 mg/m3 TWO (inhalable particles); 3 mg/m3 TWA (respirable particles)

[related to Particulates (insoluble or poorly soluble) not otherwise

specified (PNOS)].

OSHA: 15 mg/m3 TWA (total dust); 5 mg/M3 TWA (respirable fraction) (related

to Particulates not otherwise regulated).

Engineering Controls: None normally required.

Personal Protective

Equipment: Eyes/Face: None normally required.

Skin Protection: None normally required.

Respiratory Protection: None normally needed.

Section 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Appearance:Solid film
Odour:
None

Odour Threshold: Not Available pH: Not Applicable 90°C - 125°C **Melting Point: Boiling Range:** Not Applicable Flash Point: Not Applicable Not Applicable **Evaporation Rate: Upper/Lower Flammability Limits:** Not Applicable Not Applicable **Vapour Pressure: Vapour Density:** Not Applicable $560 - 600 \text{ kg/m}^3$ **Bulk Density:** Solubility: Not soluble in water

Partition Coefficient: Octanol/Water:

Auto-Ignition Temperature:

Decomposition Temperature:

Volatiles by Volume:

Not Applicable

> 330°C

> 300°C

Negligible

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Section 10

STABILITY AND REACTIVITY

Chemical Stability:

Stable under ambient conditions

Conditions to Avoid:

Avoid exposing films to temperatures over 300°C.

Incompatible Materials:

Organic solvents may partially dissolve and degrade the films.

Hazardous Decomposition Products:

Decomposition products include carbon dioxide, carbon monoxide and small amounts of other organic vapours. Inhalation of these decomposition products may be hazardous.

Hazardous Polymerization:

Will not occur.

Section 11

TOXICOLOGICAL INFORMATION

Acute Toxicity:

General Information: Material is considered biologically inert.

Chronic Toxicity:

Carcinogenicity Data: Carbon black is classified by IARC as possibly carcinogenic to humans (Group 2B). However, the carbon black is bound within the polymer matrix, and the exposure is to fine carbon black is unlikely.

Reproductive Effects: There is no reported data.

Mutagenicity Data: There is no reported data.

Synergistic Materials: There is no reported data.

Other Health Effects: None known.

Section 12

ECOLOGICAL INFORMATION

Ecotoxicity: The material is biologically inert and non-toxic.

Persistence/Degradability: It is stable in aquatic systems or in a landfill.

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Bioaccumulation/Accumulation: The film may accumulate in the digestive systems, if ingested by fish or wildlife.

Cont'd

Mobility: If released into aquatic systems, the product will float and it will flow with the water current. The product should be recovered from water.

Deactivating Chemicals: None required.

Section 13

DISPOSAL CONSIDERATIONS

The product is not a hazardous waste according to US RCRA and Canadian CEPA Regulations.

Waste Disposal Methods: Dispose of waste material at a suitable landfill site, or at an approved waste incineration facility in accordance with applicable local, provincial, state, and federal regulations.

For unused product, the preferred options include sending to a licensed recycler, reclaimer.

Section 14

TRANSPORT INFORMATION

Not Regulated

Section 15

REGULATORY INFORMATION

Polyethylene (CAS #9002-88-4) and all the ingredients in the grades are all listed in the following chemical inventories:

- USA TSCA
- Canada DSL

WHMIS Classification:
Ozone Depleting Substances:

Manufactured article. Not controlled. Complies with Clean Air Act Amendment of 1990

Section 16

OTHER INFORMATION

INFORMATION SOURCES

- 1. Supplier's Material Safety Data Sheets
- 2. RTECS, Registry of Toxic Effects of Chemical Substances, Database via the Scientific and Technical Information Network (STN).
- 3. CHEMpendium ™ CD-ROM produced by Canadian Centre for Occupational Health and Safety

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4. CHEMLIST – Regulated Chemical Listing, Database via Scientific and Technical Information Network (STN)

This MSDS has been prepared to the standards and guidelines presented in ANSI® Z400.01-2004

Revision History: New MSDS

Legend:

AFFF Aqueous Film Forming Foam

AICS
Australian Inventory of Chemical Substances
CAS#
Chemical Abstracts Service Registry Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CFR Code of Federal Regulations
DOT Department of Transportation
DSL Domestic Substances List
ECL Existing Chemicals List

EINECS European Inventory of Existing Commercial Chemical Substances

EPA Environmental Protection Agency
HMIS Hazardous Materials Identification System
MSHA Mine Safety and Health Administration

NIOSH
National Institute for Occupational Safety and Health
OSHA
Occupational Safety and Health Administration

PICCS Philippines Inventory of Chemicals and Chemical Substances

RCRA Resource Conservation and Recovery Act

SARA Superfund Amendments and Reauthorization Act of U.S. EPA

TC Transport Canada

TDG Transportation of Dangerous Goods Act/Regulations

TLV Threshold Limit Value
TSCA Toxic Substances Control Act
TWA Time-Weighted Average

WHMIS Workplace Hazardous Materials Information System

The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and AT Plastics Inc. will not be liable for any damages, losses, injuries or consequential damages which may result from the use of or reliance on any information contained herein. This Material Safety Data Sheet is valid for three years. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

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