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Huntgraphics

MATERIAL SAFETY DATA SHEET

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1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT: FUSION 4000 (DAF 801 Polyolefin Adhesive Film)

Date Printed: 04/06/99 Effective date: 03/02/99

2. COMPOSITI ON INFORMATION ON INGREDIENTS

Copolymer o' ethylene and acrylic acid Copolymer of ethylene and vinyl acetate Copolymer of ethylene and butene – 1

(Total pol /mer content

Silicon Dioxide

CAS# 009002-88-4 CAS# 009010-77-9 CAS# 024937-78-8

CAS# 009019-29-8 0 - 4%>85.0%)

CAS# 007631-86-9 CAS# 014464-46-1

>0.1-<1%

CAS# 068855-54-9

In specifically designated colors, this film may contain commercially available dyes and pigments. generally at evels less than 1%, but sometimes at levels greater than 1%, but sometimes at levels greater than 1% for titanium dioxide (CAS# 013463-67-7), carbon black (CAS# 001000-86-4), or ferric oxide (e.g., CAS# 001309-37-1).

3. HAZARDS IDENTIFICATION

Appearance: Film Odor: Odorless * Color: Colored Toxic fumes are released in fire situations -----

POTENTIAL HEALTH EFFECTS (See Section 11 for Toxicological data.)

EYE: Eye contact is unlikely due to physical state.

Essentially non-irritating to skin. Skin absorption is unlikely due to SKIN:

physical properties.

INGESTION: Single dose oral toxicity is believed to be very low. No hazards

anticipated from ingestion incidental to industrial exposure.

INHALATION: Vapors unlikely doe to physical properties.

No specific data available. However, repeated exposures are not SYSTEMIC & OTHER EFFECTS: anticipated to cause significant adverse effects. Additives are

encapsulated in the product and are expected to be released under

normal processing conditions.

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4. FIRST AID

EYE:

Flush eyes with plenty of water; mechanical effects only.

SKIN:

No adverse effects anticipated by this route of exposure incidental to proper

industrial handling.

INGESTION:

No adverse effects anticipated by this route of exposure incidental to proper

industrial handling.

INHALATION:

No adverse effects anticipated by this route of exposure incidental to proper

industrial handling.

5. FIRE FIGHTI NG MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: ME" HOD USED: Not Applicable Not Applicable

AUTOIGNITION TEMPERATURES:

Not Applicable

FLAMMABIL TY LIMITS

LFL UFL: Not Applicable

Not Applicable

HAZARD CC MBUSTION PRODUCTS: Under fire conditions polymers decompose. The smoke may contain polymer fragments of varying compositions in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to: aldhydes, organic acids, hydrocarbons, carbon monoxide, carbon dioxide.

OTHER FLA MMABILITY INFORMATION: Dense smoke is emitted when burned without sufficient oxygen.

EXTINGUIS HING MEDIA: Water, carbon dioxide, dry chemical.

FIRE FIGHTING INSTRUCTIONS: Keep people away. Isolate fire area and deny unnecessary entry. Cool surroundings with water to localize fire zone. Soak thoroughly with water to cool and prevent re-is nition.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Wear positive-pressure self-contained breathing at paratus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots and gloves). If protective equipment is not available or not used, fight fire from a protected to action or safe distance.

6. ACCIDENT AL RELEASE MEASURES (See Section 15 for Regulatory Information)

PROTECT PEOPLE:

Clear non-emergency personnel from area.

PROTECT THE ENVIRONMENT:

Avoid contamination of drinking water, natural water, ground

water or any waterway.

CLEANUP:

Sweep up.

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7. HANDLING AND STORAGE

HANDLING: Mechanical handling equipment can cause formation of dusts. Maintain good

housekeeping. Layers of flammable dusts should not be permitted to accumulate.

STORAGE: Recommend storing in a cool dry place away from high temperatures, hot pipes and

direct sun.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation should be sufficient for most conditions. Local exhaus: ventilation may be necessary for some operations, including hot wire coating.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION:

Use safety glasses

SKIIN PROTECTION: No skin protection should be needed.

RESPIRATORY PROTECTION: No respiratory protection should be needed.

Although some of the additives used in this product may have EXPOSURE GUIDELINE (S): exposure gui telines, these additives are encapsulated in the product and no exposure would be expected uncer normal handling conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Plastic film; clear or translucent

ODOR: Odorless

VAPOR PRESSURE: Not Applicable VAPOR DENSITY: Not Applicable Not Applicable BOILING PC INT: SOLUBILITY IN WATER: Not Applicable SPECIFIC GRAVITY: Not Applicable

10. STABILITY AND REACTIVITY

Thermally stable at typical use temperatures. CHEMICAL STABILITY:

CONDITIONS TO AVOID: Products can decompose at elevated temperatures. Avoid direct

sunlight.

INCOMPAT BILITY WITH

OTHER MA [ERIALS: None Known.

Hazardous decomposition products depend upon temperature, **HAZARDOUS** air supply and the presence of other materials. Hazardous **DECOMPOSITION**

PRODUCTS: decomposition products may include and are not limited to: hydrocarbons, carbon monoxide, carbon dioxide, acetaldehyde and

organic acids.

HAZARDOUS

POLYMERIZATION: Will not occur. SEP-27-02 16:23 FROM:HUNT/CUST.SERVICE

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11. TOXICOLOG CAL INFORMATION (See Section 3 for Potential Health Effects.)

SKIN:

Dermal LD50 has not been determined.

INGESTION:

Oral LD50 has not been determined.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE

MO\'EMENT AND PARTITIONING:

No bioconcentration is expected because of high molecular weight (mw >1000). In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material is

expected to float.

DECRADATION & TRANSFORMATION:

This water insoluble polymeric solid is expected to be inert in the environment. Surface photodegradation is expected with exposure to sunlight.

No appreciable biodegradation is expected.

ECOTOXICITY:

Not expected to be acutely toxic.

13. <u>DISPOSAL (:ONSIDERATIONS</u> (See Section 15 for Regulatory Information)

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. HUNT GRAPHICS AMERICAS HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/Information On Ingredients).

FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator or other thermal destruction device and landfill.

14. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (D.O.T.): This product is not regulated by D.O.T. when shipped domestically by land.

15. REGULATOR) INFORMATION (Not meant to be all-inclusive—selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

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U.S. REGULATIC NS

SARA 313 INFOF MATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

REGULATORY INFORMATION (CONTINUED)

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Not to have met any hazard category.

This product has been determined to be an article under the definitions included in the OSHA Hazard Communication Standard (29 CFR 1910.1200) and Sara Title III Section 313 (40 CFR 372.3).

TOXIC SUBSTANCES CONTROL ACT (TSCA)

All ingredients ar \ni on the TSCA are on the TSCA inventory or are not required to be listed on the TSCA inventory.

CANADIAN REGULATIONS

WHMIS INFORN ATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for his product is:

This product is no: a "Controlled Product" under WHMIS.

16. OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION (N.F.P.A.) RATINGS:

He alth 0
Fla mmability 1
Reactivity 0

MSDS STATUS: Revised to 16 section format.

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