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DuPont
Material Safety Data Sheet

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10378PP "Teflon" AP-II
Revised 23-JUL-2002

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"Teflon" is a registered trademark of DuPont.

Tradenames and Synonyms

After Market Fabric Protector

Company Identification

MANUFACTURER/DISTRIBUTOR

DuPont
1007 Market Street
Wilmington, DE 19898

PHONE NUMBERS

Product Information : 1-800-441-7515 (outside the U.S.
302-774-1000)
Transport Emergency : CHEMTREC 1-800-424-9300(outside U.S.
703-527-3887)
Medical Emergency : 1-800-441-3637 (outside the U.S.
302-774-1000)

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
Fluorinated Acrylic Copolymer		2-3
Fluorinated Substituted Urethane		1-2
Hexylene Glycol	107-41-5	6-7
Water	7732-18-5	88-90

HAZARDS IDENTIFICATION

Potential Health Effects

Skin contact may cause skin irritation with discomfort or rash; or allergic skin rashes. Absorption of Hexylene Glycol through the skin in amounts capable of causing toxic effects appears unlikely. There are inconclusive or unverified reports of human sensitization to Hexylene Glycol.

Eye contact may cause eye irritation with discomfort, tearing, or blurring of vision. Contact with liquid Hexylene Glycol may cause severe eye irritation, corneal opacity or clouding of the eye; however a 25% aqueous solution of

(HAZARDS IDENTIFICATION - Continued)

hexylene glycol caused no ocular irritation when tested in rabbits.

Inhalation of vapors may be irritating to the nose, throat, and respiratory tract causing dizziness, headache, or nausea. Inhalation of Hexylene Glycol may cause irritation of the upper respiratory passages with coughing and discomfort.

Based on related products, inhalation of spray or mist may cause nasal, throat, or lung irritation. Inhalation of large amounts of respirable particles may be toxic to the lungs.

Ingestion of Hexylene glycol may cause temporary nervous system depression with anaesthetic effects such as dizziness, headache, confusion, incoordination, and loss of consciousness.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

Flush skin with water after contact. Wash contaminated clothing before reuse.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

(FIRST AID MEASURES - Continued)

Notes to Physicians

Activated charcoal mixture may be beneficial. Suspend 50 g activated charcoal in 400 mL water and mix well. Administer 5 mL/kg, or 350 mL for an average adult.

FIRE FIGHTING MEASURES

Flammable Properties

Aqueous Solution

Non-flammable.

Hazardous decomposition products including carbon dioxide, carbon monoxide, hydrogen fluoride, toxic gases or particles may be formed during combustion. These products may cause severe eye, nose, throat, and respiratory irritation or toxic effects.

Extinguishing Media

Use media appropriate for surrounding material.

Fire Fighting Instructions

Wear self-contained breathing apparatus. Wear full protective equipment.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material.

HANDLING AND STORAGE

Handling (Personnel)

Avoid contact with eyes, skin or clothing. Do not breathe vapor or mist. Wash thoroughly after handling. Wash clothing after use. Do not store or consume food, drink, or tobacco in areas where they may become contaminated with this material. Avoid circumstances that produce respirable particles unless suitable ventilation and respirator are used.

Storage

Keep container tightly closed.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use only with adequate ventilation. Vent heated extruder or dryer fumes outside work area. Do not aerosolize. In spray applications, use airless type pressure spray equipment at less than 60 psi, and exhaust ducts, drip pans, or other design features to minimize worker exposure to mists and overspray.

Personal Protective Equipment

EYE/FACE PROTECTION

Wear coverall chemical splash goggles.

RESPIRATORS

Where there is potential for airborne exposure, wear appropriate NIOSH approved respiratory protection.

PROTECTIVE CLOTHING

Where there is potential for skin contact have available and wear as appropriate impervious gloves, apron, pants, and jacket.

Exposure Guidelines

Applicable Exposure Limits

Hexylene Glycol	
PEL (OSHA)	: None Established
TLV (ACGIH)	: 25 ppm, 121 mg/m ³ , Ceiling
AEL * (DuPont)	: None Established

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

Exposure Guideline Comments

No AEL has been established for this product. Other products with fluorinated material components have an AEL of 0.1 mg/m³ to 1 mg/m³ (8 hour TWA) for respirable size aerosol particles.

Air monitoring studies conducted at customer sites indicates that the use of the recommended low pressure (less than 60 psi) airless type, garden type or deck specific hand pump sprayer with spray tip orifice minimum of 0.031 inches in diameter does not produce respirable size aerosol particle concentrations near the AEL.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point	: 100 C (212 F) @ 760 mm Hg (water)
Freezing Point	: 0 C (32 F)
Vapor Density	: 1 g/mL
% Volatiles	: ~90 %
Solubility in Water	: Soluble
pH	: 3.5-5
Odor	: Acrylic (mild).
Form	: Liquid.
Color	: Clear to Slightly Opaque, Yellow.
Specific Gravity	: ~1.09 g/mL

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

None reasonably foreseeable.

(STABILITY AND REACTIVITY - Continued)

Decomposition

Hazardous decomposition products including carbon dioxide, carbon monoxide, hydrogen fluoride, toxic gases or particles may be formed during combustion. These products may cause severe eye, nose, throat, and lung irritation or toxic effects.

Decomposition temperature: 250-300 degrees C

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

Hexylene Glycol:

Oral LD50:	3.7 g/kg in rats
Dermal LD50:	7.88 g/kg in rabbits
Inhalation 8 hour ALC:	>18,000 ppm in rats

Animal testing indicates that Hexylene Glycol is a moderate to severe eye irritant and a slight skin irritant. A 25% aqueous solution of hexylene glycol caused no ocular irritation when tested in rabbits. Hexylene Glycol is untested for animal sensitization. Contact with liquid Hexylene Glycol caused eye irritation and partial clouding of the eye (corneal opacity). Single exposure to Hexylene Glycol by ingestion caused hypoactivity, sedation, dyspnea, ataxia, weakness, gastrointestinal inflammation and pneumonitis. Repeated exposure caused increased liver and kidney weights and decreased adrenal weights. No animal data are available to define the carcinogenicity of Hexylene Glycol. Animal data show developmental effects only at exposure levels producing other toxic effects in the adult animal. Tests in animals demonstrate no reproductive toxicity. Hexylene Glycol does not produce genetic damage in bacterial cell cultures. In mammalian cell cultures it was positive in one test and negative in one test. Hexylene Glycol has not been tested in animals for genetic toxicity.

ECOLOGICAL INFORMATION

Ecotoxicological Information

Hexylene Glycol:
96 hour LC50 - Fathead minnows: 8,690 mg/L

(Continued)

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS