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DuPont
Material Safety Data Sheet

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10110PP "Teflon" Advanced
Revised 16-FEB-2001

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"Teflon" is a registered trademark of DuPont.

Corporate MSDS Number : DU007357

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 Polyurethane (NJ Trade Secret Registry # 00850201001-5418P)		3-5
Acrylic Copolymer (NJ Trade Secret Registry # 00850201001-5516P)		1-2
Hexylene Glycol	107-41-5	1-4
Water	7732-18-5	89-95

HAZARDS IDENTIFICATION

Potential Health Effects

Skin contact may cause skin irritation with discomfort or rash. The product diluted 1:4 with water was not a skin irritant or a skin sensitizer in human patch testing.

Eye contact with the product may cause eye irritation with discomfort, tearing, or blurring of vision.

Inhalation may cause irritation of the upper respiratory passages or lung irritation effects with cough, discomfort,

(HAZARDS IDENTIFICATION - Continued)

difficulty breathing, shortness of breath, or pulmonary edema (body fluid in the lungs). Symptoms may be modest initially followed in hours by severe shortness of breath requiring prompt medical attention.

Ingestion may cause nonspecific discomfort, such as nausea, headache, or weakness, heartburn, vomiting, or diarrhea. 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

In case of contact, immediately wash skin with soap and water. 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.

Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point : Extinguishes flame

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, and throat irritation or toxic effects.

Extinguishing Media

Suitable for combustibles in the area.

Fire Fighting Instructions

Evacuate personnel to a safe area. Wear self-contained breathing apparatus.

Avoid breathing decomposition products.

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

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

Spill Clean Up

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

Accidental Release Measures

Place in container for disposal. Flush spill area with water.

HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. 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

(HANDLING AND STORAGE - Continued)

are used.

Storage

Keep container tightly closed.

Perishable if frozen. Keep away from open flames and heated surfaces above 200 degC (392 degF).

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Keep container tightly closed. 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

Wear NIOSH approved respiratory protection as appropriate.

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.

(Applicable Exposure Limits - Continued)

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)
Freezing Point	: 0 C (32 F)
% Volatiles	: 94-97 WT%
Solubility in Water	: Dispersible
pH	: 5.5-6.5
Odor	: Faint
Form	: Liquid
Color	: Off-White.
Specific Gravity	: 1

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

None reasonably foreseeable.

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.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

"Teflon" Advance:

Oral ALD: >11,000 mg/kg in rats

Hexylene Glycol:

Dermal LD50: 7.88 g/kg in rabbits

Inhalation 8 hour ALC: >18,000 ppm in rats

The product is a mild transient eye irritant and a slight skin irritant in animals. No animal test reports are available to define carcinogenic, mutagenic, developmental or reproductive hazards.

A product containing 15-35% NJ Trade Secret Registry #00850201001-5418P is moderately toxic by inhalation (Inhalation 4 hour ALC, 590 mg/m³ in rats). A single inhalation exposure to this product produced slight weight loss, nasal and ocular discharge, labored breathing, and lethargy.

Repeated exposure to Hexylene Glycol by ingestion 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

96 hour LC50, fathead minnows : 32 mg/L.

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not burn.

