

ARTISTRI™ P5910 WHITE TEXTILE INK

Version 2.0

Revision Date 09/10/2014 Ref. 130000129461

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

ARTISTRI[™] P5910 WHITE TEXTILE INK Product name

MSDS Number 130000129461

Manufacturer DuPont

> 1007 Market Street Wilmington, DE 19898

Product Information 1-302-774-1000

Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency : CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION

Potential Health Effects

May cause skin irritation. Discomfort, itching, redness, or swelling. Skin

Causes eye irritation. Pain, tearing, swelling, redness, or temporary visual Eyes

impairment.

Ingestion May cause: Central nervous system depression

Repeated exposure : Adverse effects from repeated exposure may include:, Kidney effects

Target Organ Kidney

Carcinogenicity

Material **IARC** NTP **OSHA**

Titanium dioxide 2B



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Ethane-1,2-diol	107-21-1	<20 %
Titanium dioxide	13463-67-7	<15 %
Humectant		<10 %
Non regulated ingredients		>45%

Any component not specifically identified is considered a trade secret. Properties and potential hazards of any trade secret component are included in this safety data sheet.

SECTION 4. FIRST AID MEASURES

Skin contact : Wash off immediately with plenty of water. Wash contaminated clothing

before re-use. Get medical attention if irritation develops and persists.

Eye contact : Immediately flush eye(s) with plenty of water. Seek medical advice.

Inhalation : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not

breathing, give artificial respiration. Get medical attention.

Ingestion : Is not considered a potential route of exposure. If swallowed Do NOT induce

vomiting. Call a physician or poison control centre immediately.

SECTION 5. FIREFIGHTING MEASURES

Flammable Properties

Flash point : 100 °C (212 °F)

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Ignition temperature : 401 °C (754 °F)

Lower explosion limit/ lower

flammability limit

: 3.2 vol%

Upper explosion limit/ upper

flammability limit

: 15.3 vol%

Fire and Explosion Hazard : Hazardous decomposition products formed under fire conditions. (see also

section 10) Avoid breathing decomposition products.

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and

the surrounding environment.

Water spray, Dry chemical, Carbon dioxide (CO2)

Firefighting Instructions : Exposure to decomposition products may be a hazard to health. Wear self-

contained breathing apparatus for firefighting if necessary.

Evacuate personnel to safe areas. Stop spill/release if it can be done with minimal risk. Do not allow run-off from fire fighting to enter drains or water

courses.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Safeguards (Personnel) : Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Wear

suitable protective equipment.

Spill Cleanup : Contain spill. Soak up with inert absorbent material. Collect and contain

contaminated absorbent and dike material for disposal. Keep in suitable, closed containers for disposal. Ventilate the area. Clean contaminated

surface thoroughly.

Accidental Release Measures : Prevent further leakage or spillage if safe to do so. Prevent product from

entering drains. Clean contaminated floors and objects thoroughly while

observing environmental regulations.

Dispose of in accordance with local regulations.

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SECTION 7. HANDLING AND STORAGE

Handling (Personnel) : Avoid breathing vapours or mist. Keep away from heat and flame. Do not use

in areas without adequate ventilation.

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Contaminated work clothing should not be allowed out of the workplace. Remove contaminated clothing and protective equipment before entering eating areas. Remove and wash

contaminated clothing before re-use.

Handling (Physical Aspects) : Keep away from heat and sources of ignition. Avoid formation of aerosol.

Storage : Store at room temperature in the original container. Keep away from sources

of ignition - No smoking. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Keep container closed when not in use. Do not reuse empty container.

Stable under normal conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Local exhaust or a laboratory hood should be used when handling the

materials. Maintain air concentrations below occupational exposure

standards.

Personal protective equipment

Respiratory protection

Provide adequate ventilation. No personal respiratory protective equipment normally required. Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

Hand protection : Material: Impervious gloves

Additional protection: Gloves must be inspected prior to use., Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough., The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from



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> one producer to the other., The exact break through time can be obtained from the protective glove producer and this has to be observed.. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger

of cuts, abrasion, and the contact time.

: Wear safety glasses with side shields. Eye protection

Skin and body protection : Choose body protection in relation to its type, to the concentration and

amount of dangerous substances, and to the specific work-place.

Lightweight protective clothing

Safety shoes

Exposure Guidelines Exposure Limit Values

Ethane-1,2-diol

100 mg/m3 TLV (ACGIH) TLV-C Aerosol.

AEL* (DUPONT) 10 mg/m3 8 & 12 hr. TWA Particulate.

AEL* (DUPONT) 50 ppm 8 & 12 hr. TWA Vapor.

Titanium dioxide

Permissible 15 mg/m3 8 hr. TWA Total dust. (OSHA)

exposure limit:

TLV (ACGIH) 10 mg/m3 **TWA**

AEL* (DUPONT) 10 mg/m3 8 & 12 hr. TWA Total dust.

AEL* (DUPONT) 5 mg/m3 8 & 12 hr. TWA Respirable dust.

Humectant

Permissible (OSHA) 5 mg/m3 8 hr. TWA Respirable fraction.

exposure limit:

Permissible (OSHA) 15 mg/m3 8 hr. TWA Total dust.



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exposure limit:

* 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid

Color : no data available Odor : not significant

pH : 6-9

Freezing point : -13 °C (9 °F)
Boiling point : 100 °C (212 °F)
Vapour Pressure : 1.0 hPa

Vapour Pressure : 1.0 hPa Specific gravity : 1.12 Water solubility : soluble

Evaporation rate : Slower than Ether

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : None reasonably foreseeable.

Incompatibility : None reasonably foreseeable.

Hazardous decomposition

products

: no data available:

Hazardous reactions : None reasonably foreseeable.

SECTION 11. TOXICOLOGICAL INFORMATION

Ethane-1,2-diol

Dermal LD50 : > 3,500 mg/kg, Mouse

Oral LD50 : 1,650 mg/kg , Cat

Skin irritation : No skin irritation, Rabbit

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Eye irritation : No eye irritation, Rabbit

Skin sensitization : Does not cause skin sensitisation., human

Repeated dose toxicity : Oral

Rat

Target Organs: Kidney

Kidney damage

Carcinogenicity : Not classifiable as a human carcinogen.

Animal testing did not show any carcinogenic effects.

Mutagenicity : Animal testing did not show any mutagenic effects.

Tests on bacterial or mammalian cell cultures did not show mutagenic

effects.

Reproductive toxicity : No toxicity to reproduction

No effects on or via lactation

Animal testing showed no reproductive toxicity.

Teratogenicity : Evidence suggests the substance is not a developmental toxin in

animals.

Titanium dioxide

Dermal LD50 : > 10,000 mg/kg , Rabbit

Oral LD50 : > 5,000 mg/kg, Rat

Inhalation 4 h LC50 : > 6.82 mg/l, Rat

Skin irritation : No skin irritation, Rabbit

Eye irritation : No eye irritation, Rabbit

Skin sensitization : Does not cause skin sensitisation., Guinea pig

Does not cause respiratory sensitisation., Mouse

Repeated dose toxicity : Oral

Rat

No toxicologically significant effects were found.



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Carcinogenicity : Not classifiable as a human carcinogen.

Overall weight of evidence indicates that the substance is not

carcinogenic.

Mutagenicity : Animal testing did not show any mutagenic effects.

Tests on bacterial or mammalian cell cultures did not show mutagenic

effects.

Reproductive toxicity : No toxicity to reproduction

No effects on or via lactation

Evidence suggests the substance is not a reproductive toxin in

animals.

Teratogenicity : Evidence suggests the substance is not a developmental toxin in

animals.

Humectant

Dermal LD50 : 56,750 mg/kg , Guinea pig

Oral LD50 : 27,260 mg/kg , Rat

Skin irritation : No skin irritation, Rabbit

Eye irritation : No eye irritation, Rabbit

Skin sensitization : Does not cause skin sensitisation., human

Repeated dose toxicity : Oral

Rat

No toxicologically significant effects were found.

Carcinogenicity : Not classifiable as a human carcinogen.

Animal testing did not show any carcinogenic effects.

Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic

effects.

Reproductive toxicity : No toxicity to reproduction

Animal testing showed no reproductive toxicity.

Teratogenicity : Animal testing showed no developmental toxicity.



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SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Ethane-1,2-diol

96 h LC50 : Pimephales promelas (fathead minnow) 72,860 mg/l

96 h ErC50 : Pseudokirchneriella subcapitata (green algae) 6,500 mg/l

48 h EC50 : Daphnia magna (Water flea) > 100 mg/l OECD Test Guideline 202

Titanium dioxide

96 h LC50 : Pimephales promelas (fathead minnow) > 1,000 mg/l

72 h ErC50 : Pseudokirchneriella subcapitata (green algae) > 10,000 mg/l see user

defined free text

72 h NOEC : Algae 5,600 mg/l see user defined free text

48 h EC50 : Daphnia magna (Water flea) > 100 mg/l OECD Test Guideline 202

Humectant

96 h LC50 : Oncorhynchus mykiss (rainbow trout) 54,000 mg/l

ErC50 :

48 h EC50 : Daphnia magna (Water flea) 1,955 mg/l

Environmental Fate

Ethane-1,2-diol

Biodegradability : Readily biodegradable. 90 - 100 % OECD Test Guideline 301

Bioaccumulation : Bioaccumulation is unlikely.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal : If recycling is not practicable, dispose of in compliance with local regulations.

Never place unused product down any indoor or out door drain.

Container Disposal : Do not reuse empty container.

Contaminated/not cleaned containers should be treated/handled like product



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waste.

Dispose of container properly.

Refer to applicable Local, State/Provincial, and Federal Regulations, as well

as industry Standards.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA : On the inventory, or in compliance with the inventory

SARA 313 Regulated

Chemical(s)

: Ethane-1,2-diol

California Prop. 65 : WARNING! This product contains a chemical or chemicals known to the State

of California to cause cancer. Titanium dioxide

PA Right to Know

Regulated Chemical(s)

: Substances on the Pennsylvania Hazardous Substances List present at

a concentration of 1% or more (0.01% for Special Hazardous Substances): Ethane-1,2-diol, Titanium dioxide, Humectant

NJ Right to Know

Regulated Chemical(s)

: Substances on the New Jersey Workplace Hazardous Substance List

present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): Ethane-1,2-diol,

Titanium dioxide, Humectant

SECTION 16. OTHER INFORMATION

The DuPont Oval Logo is a registered trademark of E.I. du Pont de Nemours and Company.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage,



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