

**ARTISTRI® BRITE P5200 MAGENTA PIGMENT INK**

Version 6.0

Issue Date : 11/19/2020
Revision Date : 04/30/2020

Ref. 130000128531

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

Product name : ARTISTRI® BRITE P5200 MAGENTA PIGMENT INK
Product Use : Printing ink

Restrictions on use : Do not use product for anything outside of the above specified uses.
Manufacturer/Supplier : DuPont
974 Centre Road
Wilmington, DE 19805, USA

Product Information : 1-302-996-8439
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency : +1-800-424-9300 (outside the U.S. & Canada +1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION**Product hazard category**

Serious eye damage/eye irritation Category 2A
Specific target organ toxicity - Category 2
repeated exposure

Label content

Pictogram :



Signal word : Warning

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Hazardous warnings : Causes serious eye irritation.
May cause damage to organs through prolonged or repeated exposure.
(Kidney)

Hazardous prevention measures : Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Wear eye protection/ face protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Get medical advice/ attention if you feel unwell.
If eye irritation persists: Get medical advice/ attention.
Dispose of contents/ container to an approved waste disposal plant.

Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 15 - 25 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Ethane-1,2-diol	107-21-1	1 - 10 %
2-(2-(2-Butoxyethoxy)ethoxy)ethanol	143-22-6	1 - 3 %
2-Pyrrolidone	616-45-5	1 - 3 %

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

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- General advice : Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt seek medical advice.
- Inhalation : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If breathing is irregular or stopped, administer artificial respiration. Get medical attention.
- Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.
- Eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical advice/attention.
- Ingestion : If swallowed, call a poison control centre or doctor immediately. Rinse mouth with water. DO NOT induce vomiting unless directed to do so by a physician or poison control center.
- Most important symptoms/effects, acute and delayed : No applicable data available.
- Protection of first-aiders : No applicable data available.
- Notes to physician : No specific intervention is indicated. Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray, Dry chemical, Carbon dioxide (CO₂)
- Unsuitable extinguishing media : No applicable data available.
- Specific hazards : Hazardous decomposition products formed under fire conditions. (see also section 10) Avoid breathing decomposition products.
- Special protective equipment for firefighters : Exposure to decomposition products may be a hazard to health. Wear self-contained breathing apparatus for firefighting if necessary.

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Further information : 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.

Environmental precautions : 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.

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 floors and objects thoroughly while observing environmental regulations.

Accidental Release Measures : Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel) : Avoid inhalation, ingestion and contact with skin and eyes. Do not use in areas without adequate ventilation. For personal protection see section "Exposure controls/personal protection"
Handle in accordance with good industrial hygiene and safety practice. Keep container closed. Keep away from food and drink. Wash hands before eating, drinking, or smoking. Remove contaminated clothing and protective equipment before entering eating areas. Wash contaminated clothing before re-use.

Handling (Physical Aspects) : Normal measures for preventive fire protection.

Dust explosion class : No applicable data available.

Storage : Keep containers tightly closed in a cool, well-ventilated place. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Do not reuse empty container.



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Stable under normal conditions.

Storage period : No applicable data available.

Storage temperature : No applicable data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Ensure adequate ventilation. Maintain air concentrations below occupational exposure standards. General mechanical ventilation is normally adequate but use local exhaust where necessary to maintain exposures below acceptable limits.

Personal protective equipment
 Respiratory protection : No personal respiratory protective equipment normally required. 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 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.

Eye protection : Wear safety glasses or coverall chemical splash goggles.

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 and safety shoes are recommended.

Exposure Guidelines
 Exposure Limit Values

Ethane-1,2-diol			
TLV	(ACGIH)	25 ppm	TWA Vapour


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TLV	(ACGIH)	50 ppm	STEL Vapour
TLV	(ACGIH)	10 mg/m ³	STEL Inhalable fraction, Aerosol only
PEL (Permissible Exposure Limit)	(OSHA)	50 ppm 125 mg/m ³	C
AEL *	(DuPont)	10 mg/m ³	8 & 12 hr. TWA Particulate.
AEL *	(DuPont)	50 ppm	8 & 12 hr. TWA Vapor.

2-(2-(2-Butoxyethoxy)ethoxy)ethanol

No applicable data available.

2-Pyrrolidone

AEL *	(DuPont)	5 ppm	8 & 12 hr. TWA
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* 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

Appearance

 Physical state : liquid
 Form : liquid
 Color : red

Odor : not significant

Odor threshold : No applicable data available.

pH : 7.0 - 9.0

 Melting point/freezing point : Freezing point
 -13 °C (9 °F)

 Boiling point/boiling range : Boiling point
 100 °C (212 °F)

Flash point : > 93 °C

Evaporation rate : Slower than Ether

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Flammability (solid, gas) : No applicable data available.
Upper explosion limit : No applicable data available.
Lower explosion limit : No applicable data available.
Vapor pressure : 0.5 hPa
Vapour density : No applicable data available.
Specific gravity (Relative density) : 1.05
Water solubility : soluble
Solubility(ies) : No applicable data available.
Partition coefficient: n-octanol/water : No applicable data available.
Auto-ignition temperature : No applicable data available.
Ignition temperature : 401 °C
Decomposition temperature : No applicable data available.
Viscosity, kinematic : No applicable data available.
Viscosity, dynamic : No applicable data available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.
Chemical stability : The product is chemically stable under recommended conditions of storage, use and temperature.
Stable at normal temperatures and storage conditions.
Possibility of hazardous reactions : None reasonably foreseeable.
Conditions to avoid : Avoid extreme heat. Do not freeze.
Incompatible materials : Acids, bases and strong oxidizing agents

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Hazardous decomposition products : No decomposition if stored and applied as directed.
Under fire conditions:, Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

SECTION 11. TOXICOLOGICAL INFORMATION**ARTISTRI® BRITE P5200 MAGENTA PIGMENT INK**

Further information : There is no data available for this product.

Ethane-1,2-diol

Inhalation : no data available

Inhalation :

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

Oral LD50 : 1,650 mg/kg , Cat

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
-
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.


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2-(2-(2-Butoxyethoxy)ethoxy)ethanol

- Dermal LD50 : 3,540 mg/kg , Rabbit
- Oral LD50 : 5,170 mg/kg , Rat
- Skin irritation : No skin irritation, Rabbit
- Eye irritation : Risk of serious damage to eyes., Rabbit
 Information given is based on data obtained from similar substances.
- Skin sensitization : Does not cause skin sensitisation., Guinea pig
 Information given is based on data obtained from similar substances.
- Does not cause respiratory sensitisation., Guinea pig
 Information given is based on data obtained from similar substances.
- Repeated dose toxicity : Oral
 Rat
 -
 NOAEL: 320 mg/kg
 LOAEL: 1,270 mg/kg Method: OECD Test Guideline 408
 No toxicologically significant effects were found., Information given is based on data obtained from similar substances.
- Carcinogenicity : Not classifiable as a human carcinogen.
 Animal testing did not show any carcinogenic effects.
 Information given is based on data obtained from similar substances.
- Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
 Animal testing did not show any mutagenic effects.
 Information given is based on data obtained from similar substances.
- Reproductive toxicity : No toxicity to reproduction
 Animal testing showed no reproductive toxicity.
 Information given is based on data obtained from similar substances.
- Teratogenicity : Animal testing showed no developmental toxicity.

2-Pyrrolidone

- Inhalation : Rat
 An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.


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Dermal LD50	:	> 2,000 mg/kg , Rabbit
Oral LD50	:	> 5,000 mg/kg , Rat
Skin irritation	:	No skin irritation, Rabbit Minimal effects that do not meet the threshold for classification.
Eye irritation	:	Irritation to eyes, reversing within 7 days, Rabbit
Skin sensitization	:	Does not cause skin sensitisation., Mouse Information given is based on data obtained from similar substances.
Repeated dose toxicity	:	Ingestion Rat - 90 d NOAEL: 207 mg/kg Method: OECD Test Guideline 408 No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.
Mutagenicity	:	Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Reproductive toxicity	:	Clear evidence of adverse effects on development, based on animal experiments. Animal testing did not show any effects on fertility. This substance has been assigned a Specific Concentration Limit (SCL) of $\geq 3\%$ for Reproductive toxicity Category 1B (H360D).
Teratogenicity	:	Foetal malformations Reduced growth

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

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


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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

2-(2-(2-Butoxyethoxy)ethoxy)ethanol

- 96 h LC50 : Leuciscus idus (Golden orfe) 2,200 mg/l DIN 38412
 72 h ErC50 : Desmodesmus subspicatus (green algae) > 612 mg/l
 48 h EC50 : Daphnia magna (Water flea) 2,210 mg/l
 21 d : NOEC Danio rerio (zebra fish) > 174.6 mg/l OECD Test Guideline 204
 Information given is based on data obtained from similar substances.
 21 d : NOEC Daphnia magna (Water flea) > 174.6 mg/l OECD Test Guideline 211
 Information given is based on data obtained from similar substances.

2-Pyrrolidone

- 96 h LC50 : Danio rerio (zebra fish) 4,600 - 10,000 mg/l OECD Test Guideline 203
 72 h ErC50 : Desmodesmus subspicatus (green algae) > 500 mg/l DIN 38412
 72 h EC10 : Desmodesmus subspicatus (green algae) 22.2 mg/l DIN 38412
 48 h EC50 : Daphnia magna (Water flea) > 500 mg/l Directive 67/548/EEC, Annex V, C.2.

Environmental Fate

Ethane-1,2-diol

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

2-(2-(2-Butoxyethoxy)ethoxy)ethanol

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Biodegradability : rapidly biodegradable OECD Test Guideline 301D
Readily biodegradable.

2-Pyrrolidone

Biodegradability : Biodegradable OECD Test Guideline 302
Readily biodegradable.

Bioaccumulation : Does not bioaccumulate.

Additional ecological information : There is no data available for this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product : If recycling is not practicable, dispose of in compliance with local regulations.
Never place unused product down any indoor or out door drain.

Waste disposal methods - Container : Do not reuse empty container.
Contaminated/not cleaned containers should be treated/handled like product waste.
Dispose of container properly.
Refer to applicable Local, State/Provincial, and Federal Regulations, as well as industry Standards.

Contaminated packaging : No applicable data available.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.
Regulated by DOT/49CFR as Combustible Liquid when transported in a bulk package (≥ 119 gallons(450 litres)).

SECTION 15. REGULATORY INFORMATION

TSCA : In compliance with TSCA-active Inventory requirements for commercial purposes.

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SARA 311/312 Hazard classification : Specific target organ toxicity (single or repeated exposure)
Serious eye damage or eye irritation

SARA 313 Regulated Chemical(s) : The following components are subject to reporting levels established by SARA Title III, Section 313: Ethane-1,2-diol, 2,2' -oxybisethanol, 2-(2-(2-Butoxyethoxy)ethoxy)ethanol, 2-(2-Butoxyethoxy)ethanol

California Prop. 65 : This product can expose you to substances including Formaldehyde, which is/are known to the State of California to cause cancer, and Ethane-1,2-diol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

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