

Version 5.0

Ref. 130000148846 Issue Date : 04/01/2019

Revision Date 03/27/2019

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

6200-2391 ARTISTRI® BRITE P5003 PRETREATMENT SOLUTION Product name

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 1-302-774-1000

Product Information : 1-302-774-1000

Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)

Transport Emergency : +1-800-424-9300 (outside the U.S. +1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION

Product hazard category

Serious eye damage/eye irritation Category 1

Label content

Pictogram



Signal word : Danger

Hazardous warnings : Causes serious eye damage.



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Hazardous prevention : Wear eye protection/ face protection.

measures IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER/doctor.

Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 20 - 30 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Calcium nitrate tetrahydrate	13477-34-4	10 - 20 %

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

SECTION 4. FIRST AID MEASURES

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.



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Most important

: No applicable data available.

symptoms/effects, acute

and delayed

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.

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



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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

Storage

: No applicable data available.

: 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.

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



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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

Calcium nitrate tetrahydrate					
AEL *	(DuPont)	5 mg/m3	8 & 12 hr. TWA		

^{*} 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 : Aqueous solution Color : translucent

Odor : slight

Odor threshold : No applicable data available.

pH : 6.0 - 6.5

Melting point/range : No applicable data available.



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Boiling point/boiling range : No applicable data available.

Flash point : 130 °C

Method: Cleveland closed cup - CCC

Evaporation rate : No applicable data available.

Flammability (solid, gas) : No applicable data available.

Upper explosion limit : No applicable data available.

Lower explosion limit : No applicable data available.

Vapour Pressure : No applicable data available.

Vapour density : No applicable data available.

Density : 1.0740 g/cm3

Specific gravity (Relative

density)

: No applicable data available.

Water solubility : dispersible

Solubility(ies) : No applicable data available.

Partition coefficient: n-

octanol/water

: No applicable data available.

Auto-ignition temperature : No applicable data available.

Decomposition temperature : No applicable data available.

Viscosity, kinematic : No applicable data available.

Viscosity, dynamic : No applicable data available.

% Volatile : 74.25 %WT

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.



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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

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

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

Calcium nitrate tetrahydrate

Oral LD50 301 mg/kg, Rat

Skin irritation Slight or no skin irritation, Rabbit

> Minimal effects that do not meet the threshold for classification. Information given is based on data obtained from similar substances.

Eye irritation Irreversible effects on the eye, Rabbit

Skin sensitization Does not cause skin sensitisation., Mouse

Information given is based on data obtained from similar substances.

Repeated dose toxicity Ingestion

Rat - 28 d

NOAEL: > 1,500 mg/kgMethod: OECD Test Guideline 422

No toxicologically significant effects were found., Information given is

based on data obtained from similar substances.

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

effects.

Information given is based on data obtained from similar substances.

Reproductive toxicity No toxicity to reproduction

Animal testing showed no reproductive toxicity.



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Information given is based on data obtained from similar substances.

Teratogenicity : Animal testing showed no developmental toxicity.

Information given is based on data obtained from similar substances.

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.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Calcium nitrate tetrahydrate

96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 100 mg/l OECD Test

Guideline 203

Information given is based on data obtained from similar substances.

48 h EC50 : Daphnia magna (Water flea) 490 mg/l

Information given is based on data obtained from similar substances.

32 d : NOEC Pimephales promelas (fathead minnow) 157 mg/l

Information given is based on data obtained from similar substances.

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.



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Contaminated packaging : No applicable data available.

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 311/312 Hazard

classification

: 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: Calcium nitrate tetrahydrate

California Prop. 65 : This product does not contain any substances requiring a warning under the

Safe Drinking Water and Toxic Enforcement Act.

SECTION 16. OTHER INFORMATION

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