

**ARTISTRI® P5001 PIGMENT PRETREATMENT SOLUTION**

Version 2.0

Revision Date 10/31/2016

Ref. 130000129460

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

1. IDENTIFICATION

Product name : ARTISTRI® P5001 PIGMENT PRETREATMENT SOLUTION

Recommended use of the chemical and restriction on use

Recommended use : - For industrial use only.
- For further information, refer to the product technical data sheet.

Manufacturer or supplier's details

Company : DuPont Argentina S.R.L.
Street address : Av. Ingeniero Butty, 240
Buenos Aires Argentina
Telephone : 11 4021 4700 / 0800 33 38766

Emergency telephone number : (CIQUIME) 011 4613 1100
(CIQUIME) 0800 222 2933

2. HAZARDS IDENTIFICATION**Product hazard category**

Not a hazardous substance or mixture.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Components

Chemical name	CAS-No.	Concentration
Calcium chloride	10043-52-4	5 - 10 %

4. FIRST AID MEASURES

Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt seek medical advice.

First aid measures for different exposure routes

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.

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- 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.
- Main symptoms and hazards : No information available.
- Protection of first-aiders : No information available.
- Notes to physician : No specific intervention is indicated. Treat symptomatically.

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)
- Specific hazards : Hazardous decomposition products formed under fire conditions. (see also section 10) Avoid breathing decomposition products.
- Specific firefighting procedures : 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.
- Special protective equipment for firefighters : Exposure to decomposition products may be a hazard to health. Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Wear suitable protective equipment.
Dispose of in accordance with local regulations.


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- 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.
- Methods for cleaning up : 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.

7. HANDLING AND STORAGE
Handling

- Technical measures/Precautions : 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"
- Precautions for safe handling : Normal measures for preventive fire protection.

Storage

- Suitable storage conditions : 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.

- Hygiene measures : No information available.

8. EXPOSURE PREVENTION MEASURES

- Engineering measures : 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.

Control parameters

 Calcium chloride
 AEL *
(DUPONT) 7 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.

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Biological standards : No information available.

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
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.

General protective measures : No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance (Physical state, form, colour, etc.)**

Physical state : liquid

Form : liquid

Colour : clear

Odour : odourless

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Odour Threshold : no data available**pH** : 5.9**Melting point/freezing point**

no data available

Boiling point/boiling range

Boiling point : no data available

Flammability (solid, gas) : no data available**Flash point** : > 93.3 °C
Method: closed cup**Evaporation rate** : no data available**Decomposition temperature** : no data available**Auto-ignition temperature** : no data available**Explosion limits**

Upper explosion limit : no data available

Lower explosion limit : no data available

Vapour pressure : no data available**Vapour density** : no data available**Density**

Relative density : ca. 1

Solubility(ies)

Water solubility : miscible

Solubility in other solvents : no data available

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Partition coefficient: n-octanol/water : no data available

Volatility rate : no data available

Viscosity, dynamic : no data available

Viscosity, kinematic : no data available

10. STABILITY AND REACTIVITY

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

Stability : Stable at normal temperatures and storage conditions.
No dangerous reaction known under conditions of normal use.
The product is chemically stable under recommended conditions of storage, use and temperature.

Possible hazardous reactions under specific conditions : None reasonably foreseeable.

Conditions to avoid : Avoid extreme heat. Do not freeze.

Materials to avoid : 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).

11. TOXICOLOGICAL INFORMATION

Acute toxicity : Calcium chloride:

Oral: LD50/Rat : 2,301 mg/kg
Method: OECD Test Guideline 401

Dermal: LD50/Rabbit : > 5,000 mg/kg

Skin corrosion/irritation : Calcium chloride:

Species: Rabbit
Classification: No skin irritation

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Result: No skin irritation
Method: OECD Test Guideline 404

Serious eye damage/eye irritation : Calcium chloride:

Species: Rabbit
Classification: Irritating to eyes.
Result: Irritation to eyes, reversing after 7 to 21 days
Method: OECD Test Guideline 405

Respiratory sensitisation / Skin sensitisation : Calcium chloride:

Species: Guinea pig
Classification: Does not cause skin sensitisation.
Result: Does not cause skin sensitisation.

Mutagenicity : Calcium chloride:

Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Overall weight of evidence indicates that the substance is not mutagenic.

Carcinogenicity : Calcium chloride:

Overall weight of evidence indicates that the substance is not carcinogenic.

Reproductive toxicity : Calcium chloride:

Animal testing showed no developmental toxicity. Information given is based on data obtained from similar substances.

Specific target organ toxicity - single exposure : no data available

Specific target organ toxicity - repeated exposure : no data available

Aspiration toxicity : no data available


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Other : ARTISTRI® P5001 PIGMENT PRETREATMENT SOLUTION:

No data is available on the product itself.
Information given is based on data on the components.

Calcium chloride:

Repeated dose toxicity: Ingestion, NOEL: Rat 60 d > 1,000 mg/kg
No toxicologically significant effects were found.

12. ECOLOGICAL INFORMATION
Ecotoxicity effects

Toxicity to fish : Calcium chloride:

LC50/96 h/Pimephales promelas (fathead minnow): 4,630 mg/l

Other : Calcium chloride:

ErC50/72 h/Pseudokirchneriella subcapitata (green algae): 27,000 mg/l

Method: OECD Test Guideline 201

EC50/48 h/Daphnia magna (Water flea): 2,400 mg/l

Method: OECD Test Guideline 202

EC50/21 d/Daphnia magna (Water flea): 610 mg/l

Persistence and degradability : no data available

Bioaccumulation : no data available

Mobility in soil : no data available

Other adverse effects : ARTISTRI® P5001 PIGMENT PRETREATMENT SOLUTION:

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13. CONSIDERATIONS REGARDING FINAL DISPOSAL

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

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. INFORMATION ABOUT REGULATIONS

Not a dangerous substance according to GHS.

16. OTHER INFORMATION

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Significant change from previous version is denoted with a double bar.

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