BASTION PAINT
SPECIAL EFFECT PAINTS

Bastion Paint Cosmetic Diamond Pearlescent Pigments Technical Data Sheet (TDS)

Distributors Name: Bastion Paint cc

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Bastion Paint does not manufacture these pigments. They are purchased from a reputable supplier that supplies all cosmetic certification documents to Bastion Paint.

For Safety Data Sheet please refer to our Pearlescent Pigment Safety Data Sheet (MSDS) which applies to all Bastion Paint Pearlescent Pigments (cosmetic and non-cosmetic).

- *The most relevant safety and health points are also contained in this TDS.*

1. General product properties

Bastion Paint Cosmetic Diamond Pearlescent Pigments are borosilicate glass flakes coated with titanium dioxide. They are stable products.

Avoid grinding and milling of the pearlescent pigment, the particles might break or the coating layer of the pigment might be damaged when the mechanical stress to the pigments is too high.

Bastion Paint Cosmetic Diamond Pearlescent Pigments disperse well without grinding. These pigments can be incorporated easily with simple stirring or mixing. They should not be subject to grinding or high shear mixing so need to be incorporated after any such process steps.

Bastion Paint cannot be held responsible for quality claims related to loss of lustre, brilliance, change in shade or destabilization of your formulation.

1.1. Heavy metals

Heavy metals	Maximum level	Test method
Arsenic (As)	Max. 1 ppm	GTM 009
Lead (Pb)	Max. 10 ppm	GTM 009
Mercury (Hg)	Max. 1 ppm	GTM 009
Cadmium (Cd)	Max. 1 ppm	GTM 009
Zinc (Zn)	Max. 50 ppm	GTM 009
Antimony (Sb)	Max. 2 ppm	GTM 009
Chromium (Cr)	Max. 100 ppm	GTM 009
Barium (Ba)	Max. 50 ppm	GTM 009
Copper (Cu)	Max. 50 ppm	GTM 009
Nickel (Ni)	Max. 200 ppm	GTM 009

Full destruction with microwave, HF and HNO_3 measured with ICP-OES.

1.2. Temperature resistance

Bastion Paint Cosmetic Diamond Pearlescent Pigments have a temperature resistance up to 900°C.

1.3 Loss on drying
The loss on drying of Bastion Paint Cosmetic Diamond Pearlescent Pigments is 0 - 0,5 % (105°C).

1.4 Total amount of bacteria
The total amount of bacteria in Bastion Paint Cosmetic Diamond Pearlescent Pigments is < 100 cfu/g. This is applicable for deliveries in the original boxes only.

1.5 Yeast and Mould
The yeasts and moulds specification in Bastion Paint Cosmetic Diamond Pearlescent Pigments is < 100 cfu/g. This is applicable for deliveries in the original boxes only.

1.6 Pathogens
Absence of pathogen microorganisms in Bastion Paint Cosmetic Diamond Pearlescent Pigments. This is applicable for deliveries in the original boxes only.

1.7 Lightfastness
All Bastion Paint Cosmetic Diamond Pearlescent Pigments have very high lightfastness (UV stable). This makes them suitable or a wide variety of non-cosmetic applications including arts & crafts and industrial applications.

1.8 Shelf life
Bastion Paint Cosmetic Diamond Pearlescent Pigments have a shelf life of 10 years. This shelf life is valid for original packaging, stored closed box and dry conditions.

1.9 Non-flammable
Bastion Paint Cosmetic Diamond Pearlescent Pigments are not flammable and dusts do not create any explosion risk.

2. Compliance to Regulations

Bastion Paint Cosmetic Diamond Pearlescent Pigments are in general approved for cosmetics on the European, USA and Asian markets. However, there are some restrictions;

- There is a restriction for glass based products that are larger than 150 micron (0.006 inch), they are not allowed to use in the eye area. These pigments have a particle size up to 500 microns and are thus not suitable for eye cosmetics.

All Bastion Paint Cosmetic Diamond Pearlescent Pigments correspond in their purity requirements with the following regulations:

US-regulations:
Food and Drug Administration HHS 21 CFR (US code of Fed. Regulations) part 73
Subpart B: Drugs

- Section 73.1575 Titanium Dioxide

Subpart C: Cosmetics

- Section 73.2575 Titanium Dioxide

Japanese regulations:
Mica JSCI 500492
Titanium dioxide JSCI 002170

EU-regulations:
The raw material is in consistence with the Cosmetic Directive 93/35/EEC (6th modification of directive 76/768/EEC), EC 1223/2009 and to the Decision 98/16. The above named material is not regulated under one of the appendices of directive 93/35/EEC (6th modification of directive 76/768/EEC).

Ingredients used are are compliant with the purity criteria as set out in the COMMISSION REGULATION (EU) No 231/2012.

Chinese-regulations:
All Bastion Paint Cosmetic Diamond Pearlescent Pigments are in compliance with; National Standard of the People's Republic of China: GB9685-2008 and Ministry of Health of the People's Republic of China Health Bulletin No.23 of 2011.
All Bastion Paint Cosmetic Diamond Pearlescent Pigments are in compliance to China Hygienic Standard for Cosmetics 2015.

3. Not containing

Bastion Paint Cosmetic Diamond Pearlescent Pigments do not contain Formaldehyde, Phthalates, sulphates, 1-4 dioxane, Alkylphenol, Nonylphenol, Nonoxynol, Phenol, VOC's (volatile organic compounds), Nitrosamines, EDG (glycol esters), gluten, PAH's (polycyclic aromatic hydrocarbons), substances reported under California Safe Cosmetics Act (SB-484), substances mentioned under Cites, Pigments containing CI77510 are free of Cyanide ions.

4. Preservatives, parabens, pesticides, allergens, disinfectants and irradiation

None of Bastion Paint Cosmetic Diamond Pearlescent Pigments contain any preservatives, pesticides, parabens allergens and disinfectants. All products are not classified like CMR substances with according REGULATION (EC) No 1272/2008.
None of the products contain any allergens according to EU Directive 76/768/EEC, ANNEX VIII.
Bastion Paint Cosmetic Diamond Pearlescent Pigments have not been exposed to radiation.

5. Non-organic products

All products are non-organic. All ingredients used during production do not contain derivates that come from bovine, ovine or caprine species, stated in the list of Specified Risks Materials, as laid down in Decision 97/534/EC. All products do not contain genetic modified organism as laid down in Decision 90/220/EC.

6. INCI Name

Glass / Titanium Dioxide

7. Avoid Breathing Dust

Users must wear suitable PPE to avoid breathing the dust generated by dry pigments. For small scale handling such as home applications, a certified fabric dust mask is sufficient. For large scale handling a dust extraction system must be used together with a certified fabric dust mask

8. Transport information

Bastion Paint Cosmetic Diamond Pearlescent Pigments are classified as not dangerous goods in terms of transport regulations.

9. Formulation guidelines Finished Product

Bastion Paint Cosmetic Diamond Pearlescent Pigments disperse well without grinding. These pigments can be incorporated easily with simple stirring or mixing. They should not be subject to grinding or high shear mixing so need to be incorporated after any such process steps.

It is strongly recommended to test Bastion Paint Cosmetic Diamond Pearlescent Pigments carefully in your own formulation because they may react differently depending on the type of ingredients used.

10. No child labour

Child labour policy:

- The manufacturer does not tolerate the use of child or forced labour in any of its facilities.
- The manufacturer will not tolerate the exploitation of children, their engagement in unacceptably hazardous work, and the physical punishment, abuse, or involuntary servitude of any worker.
- The manufacturer` expects their suppliers and contractors with whom they do business with to uphold the same standards.

11. No animal testing

No animal testing was performed by Bastion Paint, the Manufacturer or any sub-contractors on the products in the complete product range.

TDS Complied by and Revision Date

Name: Brian Quicke **Revision Date**: 12 November 2020

Title: Member (BSc Chemistry, honours) **Signature:**_____