



## Material Safety Data Sheet R 21 CE<sup>Plus</sup> Part D

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	R 21 CE <sup>Plus</sup> PART D
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### 2. HAZARDS IDENTIFICATION

#### INHALATION

Prolonged inhalation of volatile materials in the product may cause mucous membrane irritation and upper respiratory discomfort. It may also result in headaches and nausea.

#### INGESTION

Ingestion of the product can result in gastrointestinal disturbances, pain and discomfort.

#### EYE CONTACT

Prolonged exposure may cause irritation, redness, or tearing .

#### SKIN CONTACT

Prolonged or repeated contact may result in slight skin irritation and dryness.

#### PERMISSIBLE EXPOSURE LIMITS

The pigments contain dry powders dispersed in a polyester resin matrix. The OSHA PEL's listed in Section II refer to the dry pigment powders, when used in the dry form. The PEL's therefore, strictly refer to the dry pigment as a 'nuisance dust'. In the dispersed form, the PEL's are much higher. The PEL for the polyester resin is much higher than that for the dry pigments, and are not listed here.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical/Common Name	Exposure Limits		
	% Weight	PEL(PPM)	TLV(PPM)
Polyester Non -Styrenated Resin (Unsaturated)	30-60%	N/A	N/A
Inorganic/Organic Pigment Powder (Contains Lead and Chromium Compounds)	65-20%	N/A	N/A
Proprietary stabilizers & Thickeners (non-hazardous)	5-15%	N/A	N/A

Pigment	CAS #
1785 Ep. Silver Grey (RAL 7001)	13463-67-7 & 1317-619-9
1707 Ep. Traffic Grey (RAL 7042)	13463-67-7 & 1317-619-9
1837 Ep. Window Grey (RAL 7040)	13463-67-7 & 1317-619-9
1765 Ep. Light Blue (RAL 5012)	13463-67-7, 164-14-8 & 57455-37-5
1698 Ep. Mint Green (RAL 6029)	13463-67-7, 1344-37-2 & 164-14-8

**R 21 CE<sup>Plus</sup> Part D****4. FIRST-AID MEASURES**

See a doctor promptly after first aid procedure is performed.

**SKIN**

In the Product gets on the skin, thoroughly wash exposed area with soap and water. Remove contaminated clothing, and either discard or thoroughly launder before reuse.

**EYES**

Thoroughly wash the eyes in a running stream of water for a minimum of 15 minutes. Seek medical aid.

**INHALATION**

Remove victim from the exposure area, to a open area with fresh air, If the person is unconscious, administer artificial respiration and / or oxygen. Seek professional medical help immediately.

**INGESTION**

Seek professional medical help immediately. Do not induce vomiting, as this may be a breathing hazard.

**PRIMARY ROUTES OF ENTRY**

Inhalation and / or skin absorption

**5. FIRE-FIGHTING MEASURES****EXTINGUISHING MEDIA**

Use Carbon dioxide or dry chemical extinguishers for small fires, and foam for large fires. Water spray may be used for fire extinguishing. In general, any Class B fire extinguishing agent may be used.

**FLASH POINT (°C) LEL**

N/A

**FLAMMABILITY**

The material is not flammable (known safe up to 250°C)

**UNUSUAL FIRE & EXPLOSION HAZARDS**

Material is combustible, but not flammable, Elevated temperatures (above 300 C) can cause rapid volatilization of the polyester resin, which may ignite if air/oxygen is present. Thermal polymerization is also possible. Avoid using open flames, such as from welding or cutting torches, or on or near pigment containers.

**SPECIAL FIRE FIGHTING PRODUCTS**

Cool pigment containers with water spray. Emergency personnel, firefighters, and anyone who may be exposed to vapors or products of combustion, should wear a Self Contained Breathing Apparatus (SCBA).

**6. ACCIDENTAL RELEASE MEASURES****RESPONSE TO SPILLS AND RELEASE**

Since the product is a thick paste it will flow very slowly. Taking care not to contact any material, gently turn the container upright, to prevent further product leakage. Move the container to a secondary container area, or place it on top of a plastic sheet. Take a scooping knife or a shovel, and remove all the material from the contaminated area, and transfer to a disposal plastic bag. If the spill is on open ground, scoop all soil that shows visible traces of the colored product, and transfer to the disposal bag. If the spill is on a room floor, desk, or table, wipe final traces of visible colored pigment with a soap solution or isopropyl alcohol, and transfer the wipe cloth /paper to the disposal bag. If the spills are large, dike the entire area around the spill, so as to prevent any material transfer to water stream, systems, or sewers.

**WASTE DISPOSAL METHODS**

- Recycle and reuse, if possible.
- Convert the waste pigment to a solid product by mixing with resin and catalyzing, the same way as if it were being used as a raw material. The stabilized solid product, can be either used for practical purposes, or disposed off to an EPA approved facility.
- Incinerate product at an EPA approved incineration facility.
- Dispose to an EPA approved landfill, complying with the relevant Federal and State regulations, DOT regulations, and manifesting requirements.

**7. HANDLING AND STORAGE****USAGE PRECAUTIONS**

Avoid skin and eye contact.

**R 21 CE<sup>Plus</sup> Part D****STORAGE PRECAUTIONS**

Keep in sealed containers, away from sunlight and excess heat.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****PROTECTIVE GARMENTS**

Wear plastic gloves, shoes, and an apron while handling the product.

**RESPIRATORY PROTECTION**

Use of product in a well ventilated area, requires no special respiratory protective equipment. However, a NIOSH approved half face respiratory protective equipment, may be used, and is recommended.

**VENTILATION**

Use product in a well-ventilated open area, and / or in an area with adequate Eye Protection : Wear Chemical safety goggles

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point( C)	N/A
Specific Gravity	1.4 - 1.9
Vapor density	N/A (No appreciable Vapor present)
% Volatility by Weight	Negligible (less than 1%)
Evaporation Rate	N/A
Odour	N/A
VOC	7.60 g/L

**10. STABILITY AND REACTIVITY****STABILITY**

Stable

**HAZARDOUS POLYMERIZATION**

Will not occur.

**CONDITIONS TO AVOID**

Excessive heat and prolonged exposure to direct sunlight, Store product in a cool place,

**INCOMPATIBILITY**

Strong oxidizing agents, acids, and peroxided (expect in small quantities while curing).

**HAZARDOUS DECOMPOSITION PRODUCTS**

Thermal decomposition may generate carbon monoxide, carbon dioxide, low molecular weight hydrocarbons, and / or organic acids.

**11. TOXICOLOGICAL INFORMATION****IRRITATION DATA**

Mild irritation

**SENSITIZING CAPABILITY OR MATERIAL**

Not available

**CARCINOGEN STATUS**

Not available

**LOCAL EFFECTS**

Irritant - eye

**ACUTE TOXICITY LEVEL**

Moderately toxic by ingestion

**REPRODUCTIVE EFFECTS**

Not available

## R 21 CE<sup>Plus</sup> Part D

SYNERGISTIC EFFECTS  
Not available

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### 12. ECOLOGICAL INFORMATION

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FISH TOXICITY  
Not available

TEST SPECIES  
Not available

BIO DEGRADABILITY  
Not available

WASTE WATER BACTERIA METHOD  
Non available

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### 13. DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL REGULATIONS  
In accordance with Municipal Provincial and Federal systems.

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### 14. TRANSPORT INFORMATION

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Non regulated

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### 15. REGULATORY INFORMATION

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Under any circumstances do not bring the products with skin, eyes, and / or inhale and / or ingest product, Store Product in a cool, well ventilated area, and keeps the containers always closed during storage. Do not keep the product near an open flame. or a source of heat.

The pigments listed in this MSDS contain lead and chromium compounds. OSHA regulates lead- based compounds, and all users must follow the guidelines stipulated in the regulations, Please check with your local OSHA department for more information.

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### 16. OTHER INFORMATION

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TRAINING ADVICE : The details of this data sheet must be passed on to all personnel handling the product.

### DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.