



## SAFETY DATA SHEET

### Renew Flat White/Pastel

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

#### 1. Identification

##### Product identifier

**Product name**                      Renew Flat White/Pastel

**Product number**                      RE-2900

##### Recommended use of the chemical and restrictions on use

**Application**                              Paint.

**Uses advised against**                      No specific uses advised against are identified.

##### Details of the supplier of the safety data sheet

**Supplier**                                      See Manufacturer

**Contact Person**                              Milton Arnold

**Manufacturer**                              LANCO & HARRIS CORP.  
600 MID FLORIDA DRIVE  
ORLANDO, FL. 32824  
407-240-4000  
www.lancopaints.com

##### Emergency telephone number

**Emergency telephone**                      Office 407-240-4000 9 – 5 eastern M\_F  
Chemtrec 24 Hours: 800-424-9300

#### 2. Hazard(s) identification

##### Classification of the substance or mixture

**Physical hazards**                              Not Classified

**Health hazards**                              Carc. 1A - H350 STOT RE 1 - H372

**Environmental hazards**                      Not Classified

##### Label elements

##### Pictogram



**Signal word**                                      Danger

**Hazard statements**                              H350 May cause cancer.  
H372 Causes damage to organs through prolonged or repeated exposure.

## Renew Flat White/Pastel

<b>Precautionary statements</b>	P201 Obtain special instructions before use.
	P202 Do not handle until all safety precautions have been read and understood.
	P260 Do not breathe vapor/ spray.
	P264 Wash contaminated skin thoroughly after handling.
	P270 Do not eat, drink or smoke when using this product.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	P308+P313 If exposed or concerned: Get medical advice/ attention.
	P314 Get medical advice/ attention if you feel unwell.
	P405 Store locked up.
P501 Dispose of contents/ container in accordance with national regulations.	

**Contains** Titanium dioxide, Cristobalite, Crystalline silica (Quartz)

### Other hazards

This product does not contain any substances classified as PBT or vPvB.

### 3. Composition/information on ingredients

#### Mixtures

<b>Titanium dioxide</b> CAS number: 13463-67-7	<b>5-10%</b>
<b>Classification</b> Carc. 2 - H351	
<b>Kaolin</b> CAS number: 1332-58-7	<b>5-10%</b>
<b>Classification</b> Not Classified	
<b>Cristobalite</b> CAS number: 14464-46-1	<b>1-5%</b>
<b>Classification</b> Carc. 1B - H350 STOT RE 1 - H372	
<b>Crystalline silica (Quartz)</b> CAS number: 14808-60-7	<b>1-5%</b>
<b>Classification</b> Carc. 1A - H350 STOT RE 1 - H372	
<b>Silicon dioxide</b> CAS number: 7631-86-9	<b>&lt;1%</b>
<b>Classification</b> Not Classified	

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<b>Aluminum hydroxide</b>	<b>&lt;1%</b>
CAS number: 21645-51-2	
<b>Classification</b> Not Classified	
<b>2-aminoethanol</b>	<b>&lt;1%</b>
CAS number: 141-43-5	
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335	
<b>Zirconium(IV) oxide</b>	<b>&lt;1%</b>
CAS number: 1314-23-4	
<b>Classification</b> Not Classified	
<b>Ammonium hydroxide solution</b>	<b>&lt;1%</b>
CAS number: 1336-21-6	
M factor (Acute) = 1	
<b>Classification</b> Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335 Aquatic Acute 1 - H400	
<b>3-iodo-2-propynyl butylcarbamate</b>	<b>&lt;1%</b>
CAS number: 55406-53-6	
M factor (Acute) = 10                      M factor (Chronic) = 1	
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 3 - H331 Eye Dam. 1 - H318 Skin Sens. 1 - H317 STOT RE 1 - H372 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	

The full text for all hazard statements is displayed in Section 16.

## Renew Flat White/Pastel

**Composition comments** \* The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200. The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

### 4. First-aid measures

#### Description of first aid measures

**General information** Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.

**Inhalation** Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.

**Ingestion** Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.

**Skin Contact** Rinse with water.

**Eye contact** Rinse with water. Get medical attention if any discomfort continues.

**Protection of first aiders** First aid personnel should wear appropriate protective equipment during any rescue.

#### Most important symptoms and effects, both acute and delayed

**General information** The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation** Prolonged or repeated exposure may cause the following adverse effects: May cause cancer.

**Ingestion** Prolonged or repeated exposure may cause the following adverse effects: May cause cancer.

**Skin contact** Prolonged or repeated exposure may cause the following adverse effects: May cause cancer.

**Eye contact** No specific symptoms known. May be slightly irritating to eyes.

#### Indication of immediate medical attention and special treatment needed

**Notes for the doctor** Treat symptomatically.

### 5. Fire-fighting measures

#### Extinguishing media

**Suitable extinguishing media** The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

#### Special hazards arising from the substance or mixture

**Specific hazards** Containers can burst violently or explode when heated, due to excessive pressure build-up.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

#### Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

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**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk.

#### Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

#### Methods and material for containment and cleaning up

**Methods for cleaning up** Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

### 7. Handling and storage

#### Precautions for safe handling

**Usage precautions** Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. May cause cancer. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

**Advice on general occupational hygiene** Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

#### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store locked up. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

**Storage class** Chemical storage.

#### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

### 8. Exposure Controls/personal protection

#### Control parameters

#### Occupational exposure limits

**Titanium dioxide**

## Renew Flat White/Pastel

Long-term exposure limit (8-hour TWA): ACGIH 10 mg/m<sup>3</sup>

A4

Long-term exposure limit (8-hour TWA): OSHA 15 mg/m<sup>3</sup> total dust

### **Kaolin**

Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m<sup>3</sup> respirable fraction

A4

Long-term exposure limit (8-hour TWA): OSHA 15 mg/m<sup>3</sup> total dust

Long-term exposure limit (8-hour TWA): OSHA 5 mg/m<sup>3</sup> respirable fraction

### **Cristobalite**

Long-term exposure limit (8-hour TWA): ACGIH 0.025 mg/m<sup>3</sup> respirable fraction

A2

### **Crystalline silica (Quartz)**

Long-term exposure limit (8-hour TWA): ACGIH 0.025 mg/m<sup>3</sup> respirable fraction

A2

### **Silicon dioxide**

Long-term exposure limit (8-hour TWA): OSHA 0.8 mg/m<sup>3</sup>

### **Aluminum hydroxide**

Long-term exposure limit (8-hour TWA): ACGIH 1 mg/m<sup>3</sup> respirable fraction

### **2-aminoethanol**

Long-term exposure limit (8-hour TWA): OSHA 3 ppm 6 mg/m<sup>3</sup>

Long-term exposure limit (8-hour TWA): ACGIH 3 ppm 7.5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): ACGIH 6 ppm 15 mg/m<sup>3</sup>

### **Zirconium(IV) oxide**

Long-term exposure limit (8-hour TWA): OSHA 5 mg/m<sup>3</sup>

Long-term exposure limit (8-hour TWA): ACGIH Threshold Limit Values (TLV) 5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): ACGIH 10 mg/m<sup>3</sup>

### **Ammonium hydroxide solution**

Short-term exposure limit (15-minute): OSHA 35 ppm 27 mg/m<sup>3</sup>

Long-term exposure limit (8-hour TWA): ACGIH 25 ppm 18 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): ACGIH 35 ppm 27 mg/m<sup>3</sup>

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

A4 = Not Classifiable as a Human Carcinogen.

A2 = Suspected Human Carcinogen.

### Titanium dioxide (CAS: 13463-67-7)

**Immediate danger to life  
and health** 5000 mg/m<sup>3</sup>

### Crystalline silica (Quartz) (CAS: 14808-60-7)

**Immediate danger to life  
and health** 50 mg/m<sup>3</sup> 25 mg/m<sup>3</sup>

### Silicon dioxide (CAS: 7631-86-9)

**Immediate danger to life  
and health** 3000 mg/m<sup>3</sup>

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### 2-aminoethanol (CAS: 141-43-5)

**Immediate danger to life and health** 30 ppm

#### Exposure controls

##### Protective equipment



##### Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Ensure the ventilation system is regularly maintained and tested. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Observe any occupational exposure limits for the product or ingredients.

##### Eye/face protection

Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

##### Hand protection

Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

##### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

##### Hygiene measures

Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

##### Respiratory protection

Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.

##### Environmental exposure controls

Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Appearance	Liquid.
Color	Various colors.
Odor	Mild.
Odor threshold	Not available.
pH	pH (concentrated solution): 8.5 - 10.0
Melting point	Not available.
Initial boiling point and range	Not available.

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<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Lighter than air.
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not applicable.
<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	1.445
<b>Oxidizing properties</b>	Not available.
<b>Coating v.o.c.</b>	44 g/l
<b>Material v.o.c.</b>	15 g/l

### 10. Stability and reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
<b>Possibility of hazardous reactions</b>	No potentially hazardous reactions known.
<b>Conditions to avoid</b>	There are no known conditions that are likely to result in a hazardous situation.
<b>Materials to avoid</b>	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
<b>Hazardous decomposition products</b>	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

### 11. Toxicological information

#### Information on toxicological effects

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.



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### Skin corrosion/irritation

**Animal data** Based on available data the classification criteria are not met.

### Serious eye damage/irritation

**Serious eye damage/irritation** Based on available data the classification criteria are not met.

### Respiratory sensitization

**Respiratory sensitization** Based on available data the classification criteria are not met.

### Skin sensitization

**Skin sensitization** Based on available data the classification criteria are not met.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

### Carcinogenicity

**Carcinogenicity** May cause cancer.

### **IARC carcinogenicity**

Contains a substance/a group of substances which may cause cancer. IARC Group 1  
Carcinogenic to humans.

### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Based on available data the classification criteria are not met.

### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** STOT RE 1 - H372 Causes damage to organs through prolonged or repeated exposure.

### Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

### **General information**

May cause cancer after repeated exposure. Risk of cancer depends on duration and level of exposure. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation** No specific symptoms known.

**Ingestion** No specific symptoms known.

**Skin Contact** No specific symptoms known.

**Eye contact** No specific symptoms known.

**Route of entry** Ingestion Inhalation Skin and/or eye contact

**Target Organs** No specific target organs known.

## 12. Ecological Information

**Ecotoxicity** Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

### Toxicity

**Toxicity** Based on available data the classification criteria are not met.

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### Persistence and degradability

**Persistence and degradability** The degradability of the product is not known.

### Bioaccumulative potential

**Bio-Accumulative Potential** No data available on bioaccumulation.

**Partition coefficient** Not available.

### Mobility in soil

**Mobility** No data available.

### Results of PBT and vPvB assessment

#### Other adverse effects

**Other adverse effects** None known.

## 13. Disposal considerations

### Waste treatment methods

#### **General information**

The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

#### **Disposal methods**

Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

## 14. Transport information

#### **General**

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

#### UN Number

Not applicable.

#### UN proper shipping name

Not applicable.

#### Transport hazard class(es)

Not regulated.

#### Packing group

#### Environmental hazards

#### **Environmentally Hazardous Substance**

No.

#### Special precautions for user

Not applicable.

## 15. Regulatory information

### International Regulations

## Renew Flat White/Pastel

### US State Regulations

#### **California Proposition 65 Carcinogens and Reproductive Toxins**

Contains components known to the State of California to cause cancer.

*Silicon dioxide*

Known to the State of California to cause cancer.

*Titanium dioxide*

Known to the State of California to cause cancer.

#### **Massachusetts "Right To Know" List**

The following ingredients are listed or exempt:

*Ammonium hydroxide solution*

Present.

*Crystalline silica (Quartz)*

Present.

*Cristobalite*

Present.

*Zirconium(IV) oxide*

Present.

*Silicon dioxide*

Present.

*Titanium dioxide*

Present.

*Kaolin*

Present.

*Distillates (petroleum), solvent-dewaxed light paraffinic*

Present.

#### **Rhode Island "Right To Know" List**

Some of the ingredients are listed or exempt.

*Crystalline silica (Quartz)*

Present.

*Titanium dioxide*

Present.

*Kaolin*

Present.

#### **Minnesota "Right To Know" List**

Some of the ingredients are listed or exempt.

*Crystalline silica (Quartz)*

Present.

*Cristobalite*

Present.

*Silicon dioxide*

Present.

*Titanium dioxide*

Present.

*Kaolin*

Present.

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### New Jersey "Right To Know" List

Some of the ingredients are listed or exempt.

*3-iodo-2-propynyl butylcarbamate*

Present.

*Ammonium hydroxide solution*

Present.

*Crystalline silica (Quartz)*

Present.

*Cristobalite*

Present.

*Titanium dioxide*

Present.

*Kaolin*

Present.

### Pennsylvania "Right To Know" List

Some of the ingredients are listed or exempt.

*Ammonium hydroxide solution*

Present.

*Crystalline silica (Quartz)*

Present.

*Cristobalite*

Present.

*Silicon dioxide*

Present.

*Titanium dioxide*

Present.

*Kaolin*

Present.

### Inventories

#### Canada - DSL/NDSL

Present.

#### US - TSCA

Present.

### 16. Other information

<b>Training advice</b>	Only trained personnel should use this material.
<b>Revision comments</b>	This is first issue.
<b>Issued by</b>	Milton Arnold
<b>Revision date</b>	11/8/2016
<b>Revision</b>	1
<b>SDS No.</b>	4630
<b>SDS status</b>	Approved.

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**Hazard statements in full**

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H350 May cause cancer.
- H351 Suspected of causing cancer.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H372 Causes damage to organs (Lungs) through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

**End of SDS**

XX

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.

