

<b>50994-1050</b>
<b>-2050</b>

## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

<b>Material name</b>	IdeaPaint CREATE part A (THAT)
<b>Version #</b>	03
<b>Revision date</b>	12-13-11
<b>CAS #</b>	Mixture
<b>Product code</b>	CREATE (A) (THAT)
<b>Product use</b>	Dry erase coating.
<b>Manufacturer/Supplier</b>	IdeaPaint
<b>Address</b>	290 Eliot Street, 2nd Floor, Ashland, MA 01721
<b>Telephone number</b>	617.714.1050
<b>E-mail</b>	Not available.
<b>Contact person</b>	Not available.
<b>24-Hour Emergency:</b>	866-519-4752
<b>3E, US</b>	Contract: 12654, Access Code: 333641

### 2. Hazards Identification

<b>Physical state</b>	Liquid.
<b>Appearance</b>	Opaque liquid.
<b>Emergency overview</b>	WARNING

May be harmful if swallowed. Irritating to eyes and skin. May cause allergic skin reaction.  
This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

#### OSHA regulatory status

#### Potential health effects

##### Routes of exposure

Inhalation. Ingestion. Skin contact. Eye contact.

##### Eyes

Irritating to eyes.

##### Skin

Irritating to skin.

##### Inhalation

Prolonged inhalation may be harmful.

##### Ingestion

Harmful if swallowed. Irritating to mouth, throat, and stomach.

#### Target organs

Eyes. Skin.

#### Chronic effects

Preparation contains an epoxy resin, which may cause sensitization and development of allergy.

#### Signs and symptoms

Skin irritation. Irritation of eyes and mucous membranes. Sensitization.

#### Potential environmental effects

Toxic to aquatic organisms. May cause long-term adverse effects in the environment.

### 3. Composition / Information on Ingredients

Components	CAS #	Percent
Titanium Dioxide	13463-67-7	15-40
Aluminium oxide	1344-28-1	0.5-1.5
Silicon dioxide	7631-86-9	0.5-1.5

#### Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First Aid Measures

#### First aid procedures

##### Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if irritation develops or persists.

##### Skin contact

Remove contaminated clothes and rinse skin thoroughly with water for at least 15 minutes. Get medical attention if irritation develops or persists.

IdeaPaint CREATE part A (THAT)

CPH MSDS US

~~904456~~ Version #: 03 Revision date: 12-13-2011 Print date: 12-13-2011

1 / 7

Item Numbers: 50994-1050, 50994-2050

Page 1 of 13

<b>Inhalation</b>	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.
<b>Ingestion</b>	<b>IF SWALLOWED:</b> Immediately call a POISON CENTER or doctor/physician. Have victim rinse mouth thoroughly with water. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
<b>Notes to physician</b>	Treat symptomatically.
<b>General advice</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire Fighting Measures

<b>Flammable properties</b>	The product is not flammable.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Carbon dioxide, regular foam, dry chemical, water spray, or water fog.
<b>Unsuitable extinguishing media</b>	None known.
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Fire or high temperatures create: Carbon oxides. Nitrogen oxides. Metal oxides.
<b>Protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6. Accidental Release Measures

<b>Personal precautions</b>	Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Avoid inhalation of vapors and contact with skin and eyes. Wear protective clothing as described in Section 8 of this MSDS.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
<b>Methods for cleaning up</b>	<p><b>Large Spills:</b> Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.</p> <p><b>Small Spills:</b> Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste.</p>
<b>Other information</b>	Clean up in accordance with all applicable regulations. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

## 7. Handling and Storage

<b>Handling</b>	Use Personal Protective Equipment recommended in section 8 of the MSDS. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Persons with epoxy allergy should not work with this product. Avoid inhalation of vapors and contact with skin, eyes and clothing. Avoid release to the environment. Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not reuse this container. "Empty" containers retain product residue (liquid or vapor) and can be dangerous.
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**Storage**

Store in accordance with local, regional, national, and international regulations. Store in tightly closed original container in a dry, cool and well-ventilated place. Protect from direct sunlight. Store away from incompatible materials. Keep away from food, drink and animal feeding stuffs. Do not store in unlabelled containers. Keep container tightly closed in a dry and well-ventilated place. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate container to avoid environmental contamination. Store at temperature below 49°C.

**8. Exposure Controls / Personal Protection****Occupational exposure limits****US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Aluminium oxide (1344-28-1)	TWA	1 mg/m <sup>3</sup>	Respirable fraction.
Silicon dioxide (7631-86-9)	TWA	3 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>	Respirable particles. Inhalable particles.
Titanium Dioxide (13463-67-7)	TWA	10 mg/m <sup>3</sup>	

**U.S. - OSHA**

Components	Type	Value	Form
Silicon dioxide (7631-86-9)	TWA	6 mg/m <sup>3</sup> 20 mppcf	Unspecified. Unspecified.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value	Form
Aluminium oxide (1344-28-1)	PEL	5 mg/m <sup>3</sup>	Respirable fraction.
Silicon dioxide (7631-86-9)	PEL	15 mg/m <sup>3</sup> 5 mg/m <sup>3</sup> 15 mg/m <sup>3</sup>	Total dust. Respirable fraction. Total dust.
Titanium Dioxide (13463-67-7)	PEL	15 mg/m <sup>3</sup>	Total dust.

**US. OSHA Table Z-3 (29 CFR 1910.1000)**

Components	Type	Value	Form
Silicon dioxide (7631-86-9)	TWA	5 mg/m <sup>3</sup> 15 mg/m <sup>3</sup>	Respirable fraction. Total dust.

**Engineering controls**

Ensure adequate ventilation, especially in confined areas. Provide easy access to water supply and eye wash facilities.

**Personal protective equipment****Eye / face protection**

Chemical goggles are recommended.

**Skin protection**

Wear protective gloves. Butyl rubber gloves are recommended. Wear suitable protective clothing.

**Respiratory protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.

**General hygiene considerations**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned. Do not eat, drink or smoke when using the product. Handle in accordance with good industrial hygiene and safety practice.

**9. Physical & Chemical Properties**

<b>Appearance</b>	Opaque liquid.
<b>Color</b>	White.
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>pH</b>	Not available.
<b>Melting point</b>	Not available.
<b>Freezing point</b>	Not available.
<b>Boiling point</b>	> 100 °F (> 37.8 °C)

IdeaPaint CREATE part A (THAT)

CPH MSDS US

904438 Version #: 03 Revision date: 12-13-2011 Print date: 12-13-2011

3 / 7

Item Numbers: 50994-1050, 50994-2050

Page 3 of 13

<b>Flash point</b>	207 °F (97.2 °C) Closed Cup
<b>Evaporation rate</b>	69 BuAc
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapor pressure</b>	1.5 kPa (20 °C)
<b>Vapor density</b>	Not available.
<b>Specific gravity</b>	Not available.
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>VOC</b>	< 25 g/l

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable at normal conditions.
<b>Conditions to avoid</b>	Heat.
<b>Incompatible materials</b>	Water. Acids. Oxidizing material. Strong alkaline.
<b>Hazardous decomposition products</b>	None in particular.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.

## 11. Toxicological Information

### Toxicological data

Components	Test Results
Silicon dioxide (7631-86-9)	Acute Oral LD50 Mouse: > 15000 mg/kg Acute Oral LD50 Rat: > 22500 mg/kg
<b>Acute effects</b>	Harmful if swallowed. Irritating to eyes and skin.
<b>Local effects</b>	Irritating to eyes and skin.
<b>Sensitization</b>	May cause sensitization by skin contact.
<b>Chronic effects</b>	Preparation contains an epoxy resin, which may cause sensitization and development of allergy.
<b>Carcinogenicity</b>	Hazardous by OSHA criteria. Hazardous by WHMIS criteria. Cancer hazard.
<b>ACGIH Carcinogens</b>	
Aluminium oxide (CAS 1344-28-1)	A4 Not classifiable as a human carcinogen.
Titanium Dioxide (CAS 13463-67-7)	A4 Not classifiable as a human carcinogen.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	
Silicon dioxide (CAS 7631-86-9)	3 Not classifiable as to carcinogenicity to humans.
Titanium Dioxide (CAS 13463-67-7)	2B Possibly carcinogenic to humans.
<b>Mutagenicity</b>	No data available.
<b>Symptoms and target organs</b>	Skin irritation. Irritation of eyes and mucous membranes. Sensitization.
<b>Further information</b>	No other specific acute or chronic health impact noted.

## 12. Ecological Information

### Ecotoxicological data

Components	Test Results
Titanium Dioxide (13463-67-7)	EC50 Water flea (Daphnia magna): > 1000 mg/l 48 hours LC50 Mummichog (Fundulus heteroclitus): > 1000 mg/l 96 hours
<b>Ecotoxicity</b>	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

IdeaPaint CREATE part A (THAT)

CPH MSDS US

004458 Version #: 03 Revision date: 12-13-2011 Print date: 12-13-2011

4 / 7

Item Numbers: 50994-1050, 50994-2050

Page 4 of 13

<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Bioaccumulation / Accumulation</b>	Not available.
<b>Mobility in environmental media</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.

### 13. Disposal Considerations

<b>Waste from residues / unused products</b>	Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport Information

#### DOT

##### Basic shipping requirements:

<b>UN number</b>	UN3082
<b>Proper shipping name</b>	Environmentally hazardous substances, liquid, n.o.s. (Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate)
<b>Hazard class Packing group Environmental hazards</b>	9 III
<b>Marine pollutant Labels required Additional information:</b>	Yes 9
<b>Special provisions</b>	8, 146, 335, IB3, T4, TP1, TP29
<b>Packaging exceptions</b>	155
<b>Packaging non bulk</b>	203
<b>Packaging bulk</b>	241

#### IATA

##### Basic shipping requirements:

<b>UN number</b>	3082
<b>Proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate)
<b>Hazard class Packing group Environmental hazards</b>	9 III
<b>Marine pollutant Additional information:</b>	Yes
<b>ERG code</b>	9L

#### IMDG

##### Basic shipping requirements:

<b>UN number</b>	3082
<b>Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate)
<b>Hazard class Packing group Environmental hazards</b>	9 III
<b>Marine pollutant EmS No.</b>	Yes F-A, S-F

### 15. Regulatory Information

<b>US federal regulations</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.
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#### TSCA Section 12(b) Export Notification(40 CFR 707, Subpt. D)

Not regulated.

IdeaPaint CREATE part A (THAT)

CPH MSDS US

~~90450~~ Version #: 03 Revision date: 12-13-2011 Print date: 12-13-2011

6 / 7

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration**

Aluminium oxide (CAS 1344-28-1) 1.0 %

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance**

Aluminium oxide (CAS 1344-28-1) Listed.

**CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)**

None

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
 Immediate Hazard - Yes  
 Delayed Hazard - Yes  
 Fire Hazard - No  
 Pressure Hazard - No  
 Reactivity Hazard - No

**Section 302 extremely hazardous substance (40 CFR 355, Appendix A)**  
 No

**Section 311/312 (40 CFR 370)**  
 No

**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**State regulations** WARNING: This product contains chemicals known to the State of California to cause cancer.**US - California Hazardous Substances (Director's): Listed substance**

Aluminium oxide (CAS 1344-28-1) Listed.

Silicon dioxide (CAS 7631-86-9) Listed.

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

Titanium Dioxide (CAS 13463-67-7) Listed: September 2, 2011 Carcinogenic.

**US - Massachusetts RTK - Substance: Listed substance**

Aluminium oxide (CAS 1344-28-1) Listed.

Silicon dioxide (CAS 7631-86-9) Listed.

Titanium Dioxide (CAS 13463-67-7) Listed.

**US - New Jersey Community RTK (EHS Survey): Reportable threshold**

Aluminium oxide (CAS 1344-28-1) 500 LBS

**US - New Jersey RTK - Substances: Listed substance**

Aluminium oxide (CAS 1344-28-1) Listed.

Silicon dioxide (CAS 7631-86-9) Listed.

Titanium Dioxide (CAS 13463-67-7) Listed.

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

Aluminium oxide (CAS 1344-28-1) Listed.

Silicon dioxide (CAS 7631-86-9) Listed.

Titanium Dioxide (CAS 13463-67-7) Listed.

**16. Other Information****Further information** HMIS® is a registered trade and service mark of the NPCA.

IdeaPaint CREATE part A (THAT)

904458 Version #: 03 Revision date: 12-13-2011 Print date: 12-13-2011

CPH MSDS US

6 / 7

<b>HMIS® ratings</b>	<b>Health: 2*</b> <b>Flammability: 1</b> <b>Physical hazard: 0</b>
<b>NFPA ratings</b>	<b>Health: 1</b> <b>Flammability: 1</b> <b>Instability: 0</b>
<b>Disclaimer</b>	<b>The information in the sheet was written based on the best knowledge and experience currently available.</b>
<b>Issue date</b>	<b>10-05-2011</b>

## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

**Material name** IdeaPaint CREATE part B (THIS)  
**Version #** 03  
**Revision date** 12-13-2011  
**CAS #** Mixture  
**Product code** CREATE (B) (THIS)  
**Product use** Dry erase coating.  
**Manufacturer/Supplier** IdeaPaint  
**Address** 290 Eliot Street, 2nd Floor, Ashland, MA 01721  
**Telephone number** 617.714.1050  
**E-mail** Not available.  
**Contact person** Not available.  
**24-Hour Emergency:** 866-519-4752  
**3E, US** Contract: 12654, Access Code: 333641

### 2. Hazards Identification

**Physical state** Liquid.  
**Appearance** Transparent liquid  
**Emergency overview** WARNING  
 Irritating to eyes and skin.  
**OSHA regulatory status** This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).  
**Potential health effects**  
**Routes of exposure** Inhalation. Ingestion. Skin contact. Eye contact.  
**Eyes** Irritating to eyes.  
**Skin** Irritating to skin.  
**Inhalation** Prolonged inhalation may be harmful.  
**Ingestion** Irritating to mouth, throat, and stomach.  
**Target organs** Eyes. Respiratory system. Skin.  
**Chronic effects** Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.  
**Signs and symptoms** Skin irritation. Irritation of eyes and mucous membranes.  
**Potential environmental effects** Toxic to aquatic organisms. May cause long-term adverse effects in the environment.

### 3. Composition / Information on Ingredients

Components	CAS #	Percent
n-[3-(Trimethoxysilyl)propyl]butylamine	31024-56-3	35-90
n-(3-(Trimethoxysilyl)propyl)ethylenediamine	1760-24-3	15-40
Dibutyltin dilaurate	77-58-7	0.5-<5.0

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First Aid Measures

#### First aid procedures

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if irritation develops or persists.  
**Skin contact** Remove contaminated clothes and rinse skin thoroughly with water for at least 15 minutes. Get medical attention if irritation develops or persists.



<b>Inhalation</b>	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.
<b>Ingestion</b>	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Have victim rinse mouth thoroughly with water. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
<b>Notes to physician</b>	Treat symptomatically.
<b>General advice</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire Fighting Measures

<b>Flammable properties</b>	The product is not flammable.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Carbon dioxide, regular foam, dry chemical, water spray, or water fog.
<b>Unsuitable extinguishing media</b>	None known.
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Fire or high temperatures create: Carbon oxides. Nitrogen oxides. Metal oxides.
<b>Protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6. Accidental Release Measures

<b>Personal precautions</b>	Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Avoid inhalation of vapors and contact with skin and eyes. Wear protective clothing as described in Section 8 of this MSDS.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
<b>Methods for cleaning up</b>	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste.
<b>Other information</b>	Clean up in accordance with all applicable regulations. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

## 7. Handling and Storage

<b>Handling</b>	Use Personal Protective Equipment recommended in section 8 of the MSDS. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Persons with epoxy allergy should not work with this product. Avoid inhalation of vapors and contact with skin, eyes and clothing. Avoid release to the environment. Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not reuse this container. "Empty" containers retain product residue (liquid or vapor) and can be dangerous.
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**Storage**

Store in accordance with local, regional, national, and international regulations. Store in tightly closed original container in a dry, cool and well-ventilated place. Protect from direct sunlight. Store away from incompatible materials. Keep away from food, drink and animal feeding stuffs. Do not store in unlabelled containers. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate container to avoid environmental contamination. Store at temperature below 49°C.

**8. Exposure Controls / Personal Protection****Occupational exposure limits****US. ACGIH Threshold Limit Values**

Components	Type	Value
Dibutyltin dilaurate (77-58-7)	STEL	0.2 mg/m <sup>3</sup>
	TWA	0.1 mg/m <sup>3</sup>

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value
Dibutyltin dilaurate (77-58-7)	PEL	0.1 mg/m <sup>3</sup>

**Engineering controls**

Ensure adequate ventilation, especially in confined areas. Provide easy access to water supply and eye wash facilities.

**Personal protective equipment****Eye / face protection**

Chemical goggles are recommended.

**Skin protection**

Wear protective gloves. Butyl rubber gloves are recommended. Wear suitable protective clothing.

**Respiratory protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.

**General hygiene considerations**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned. Do not eat, drink or smoke when using the product. Handle in accordance with good industrial hygiene and safety practice.

**9. Physical & Chemical Properties**

<b>Appearance</b>	Transparent liquid
<b>Color</b>	Clear.
<b>Odor</b>	Slight ammonia.
<b>Odor threshold</b>	Not available.
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>pH</b>	Not available.
<b>Melting point</b>	Not available.
<b>Freezing point</b>	Not available.
<b>Boiling point</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Specific gravity</b>	Not available.
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.

IdeaPaint CREATE part B (THIS)

904467 Version #: 03 Revision date: 12-13-2011 Print date: 12-13-2011

CPH MSDS US

3 / 6

**Decomposition temperature** Not available.  
**VOC** < 99 g/l

## 10. Chemical Stability & Reactivity Information

**Chemical stability** Stable at normal conditions.  
**Conditions to avoid** Keep away from heat, sparks, and flame.  
**Incompatible materials** Peroxides. Oxidizing agents. Acids. Alcohols. Reducing agents. Bases.  
**Hazardous decomposition products** None expected under normal conditions of use.  
**Possibility of hazardous reactions** Hazardous polymerization does not occur.

## 11. Toxicological Information

**Acute effects** Irritating to eyes and skin. Material generates methanol on contact with water or moisture in eye, skin and mucous membranes and has an irritating dehydrating effect on overexposed tissue.  
**Local effects** Harmful if swallowed. Components of the product may be absorbed into the body through the skin. Contact may irritate or burn eyes. May cause sensitization by skin contact.

### US ACGIH Threshold Limit Values: Skin designation

Dibutyltin dilaurate (CAS 77-58-7) Can be absorbed through the skin.

**Sensitization** May cause sensitization by skin contact.  
**Chronic effects** Prolonged exposure may cause chronic effects.  
**Carcinogenicity** No data available.

### ACGIH Carcinogens

Dibutyltin dilaurate (CAS 77-58-7) A4 Not classifiable as a human carcinogen.

**Mutagenicity** No data available.  
**Symptoms and target organs** Skin irritation. Irritation of eyes and mucous membranes.

## 12. Ecological Information

**Ecotoxicity** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
**Persistence and degradability** No data is available on the degradability of this product.  
**Bioaccumulation / Accumulation** Not available.  
**Mobility in environmental media** Not available.  
**Partition coefficient (n-octanol/water)** Not available.

## 13. Disposal Considerations

**Waste from residues / unused products** Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.  
**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport Information

### DOT

#### Basic shipping requirements:

**UN number** UN3082  
**Proper shipping name** Environmentally hazardous substances, liquid, n.o.s. (Dibutyltin dilaurate)  
**Hazard class** 9  
**Packing group** III  
**Environmental hazards**  
**Marine pollutant Labels required** Yes  
**Additional Information:** 9  
**Special provisions** 8, 146, 335, IB3, T4, TP1, TP29

**Packaging exceptions** 155  
**Packaging non bulk** 203  
**Packaging bulk** 241

**IATA****Basic shipping requirements:**

**UN number** 3082  
**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s. (Dibutyltin dilaurate)  
**Hazard class Packing group Environmental hazards** 9 III  
**Marine pollutant** Yes  
**Additional information:**  
**ERG code** 9L

**IMDG****Basic shipping requirements:**

**UN number** 3082  
**Proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dibutyltin dilaurate)  
**Hazard class Packing group Environmental hazards** 9 III  
**Marine pollutant** Yes  
**EmS No.** F-A, S-F

**15. Regulatory Information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

**TSCA Section 12(b) Export Notification(40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)**

None

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance (40 CFR 355, Appendix A)** No

**Section 311/312 (40 CFR 370)** No

**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes

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004467 Version #: 03 Revision date: 12-13-2011 Print date: 12-13-2011

CPH MSDS US

5 / 6

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**State regulations** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**US - California Hazardous Substances (Director's): Listed substance**  
Dibutyltin dilaurate (CAS 77-58-7) Listed.

**16. Other Information**

<b>Further information</b>	HMIS® is a registered trade and service mark of the NPCA.
<b>HMIS® ratings</b>	Health: 2 Flammability: 0 Physical hazard: 0
<b>NFPA ratings</b>	Health: 2 Flammability: 0 Instability: 0
<b>Disclaimer</b>	The information in the sheet was written based on the best knowledge and experience currently available.
<b>Issue date</b>	10-05-2011