

50993-1050**MATERIAL SAFETY DATA SHEET****1. Product and Company Identification**

Material name IdeaPaint CREATE CLEAR THAT (part A)
Version # 03
Issue date 08-29-2012
Revision date 09-13-2012
Supersedes date 08-29-2012
CAS # Mixture
Product code IdeaPaint CREATE CLEAR- THAT (part A)
Product use Dry erase coating.
Manufacturer/Supplier IdeaPaint
 290 Eliot Street, 2nd Floor, Ashland, MA 01721
Telephone number 617.714.1050
Emergency +1.866.519.4752 (US, Canada, Mexico)
 +1-760-476-3962 (US, Canada, Mexico)
 Access Code: 333641

2. Hazards Identification

Physical state Liquid.
Appearance Transparent liquid
Emergency overview 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****Eyes****Skin****Inhalation****Ingestion****Target organs****Chronic effects****Signs and symptoms****Potential environmental effects**

Inhalation. Ingestion. Skin contact. Eye contact.
 Irritating to eyes.
 Irritating to skin.
 Prolonged inhalation may be harmful.
 Harmful if swallowed. Irritating to mouth, throat, and stomach.
 Eyes. Skin.
 Preparation contains an epoxy resin, which may cause sensitization and development of allergy.
 Possible reproductive hazard - contains material that may cause adverse reproductive effects.
 Danger of adverse health effects by prolonged exposure.
 Skin irritation. Irritation of eyes and mucous membranes. Sensitization.
 Toxic to aquatic organisms. May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

| Components | CAS # | Percent |
|---|------------|---------|
| Siloxanes and silicones, di-me, methoxy ph polymers with ph silsesquioxanes, methoxy-terminated | 68957-04-0 | 40-70 |
| Epoxy resin, MW <= 700 | 30583-72-3 | 10-30 |
| Propylene carbonate | 108-32-7 | 3-8 |
| Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | 41556-26-7 | 1-5 |
| Dibutyltin di(acetate) | 1067-33-0 | 1-5 |
| Silicon dioxide | 7631-86-9 | 0.3-<1 |
| Ethanol | 64-17-5 | 0.1-1 |
| Ethylbenzene | 100-41-4 | 0.1-1 |

IdeaPaint CREATE CLEAR THAT (part A)

CPH MSDS US

009896 Version #: 03 Revision date: 09-13-2012 Issue date: 08-29-2012

1 / 7

| Components | CAS # | Percent |
|------------|-----------|---------|
| Xylene | 1330-20-7 | 0.1-1 |

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 eyelids 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. |
| Inhalation | 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. |
| Ingestion | Have victim rinse mouth thoroughly with water. Do not induce vomiting without advice from poison control center. Do not use mouth-to-mouth method if victim ingested the substance. |

Notes to physician

Treat symptomatically.

General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties

The product is not flammable.

Extinguishing media

Suitable extinguishing media Carbon dioxide, regular foam, dry chemical, water spray, or water fog.

Unsuitable extinguishing media None known.

Protection of firefighters

Specific hazards arising from the chemical Fire or high temperatures create: Carbon oxides. Nitrogen oxides. Metal oxides.

Protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Move containers from fire area if you can do it without risk. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Specific methods

Move container from fire area if it can be done without risk. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

6. Accidental Release Measures

Personal precautions

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.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Methods for cleaning up

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.

IdeaPaint CREATE CLEAR THAT (part A)

CPH MSDS US

909896 Version #: 03 Revision date: 09-13-2012 Issue date: 08-29-2012

2 / 7

Other information

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**Handling**

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.

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 |
|--|------|-----------|
| Dibutyltin di(acetate) (CAS 1067-33-0) | STEL | 0.2 mg/m3 |
| Ethanol (CAS 64-17-5) | TWA | 0.1 mg/m3 |
| Ethylbenzene (CAS 100-41-4) | STEL | 1000 ppm |
| | TWA | 20 ppm |
| Xylene (CAS 1330-20-7) | STEL | 150 ppm |
| | TWA | 100 ppm |

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

| Components | Type | Value |
|--|------|------------|
| Dibutyltin di(acetate) (CAS 1067-33-0) | PEL | 0.1 mg/m3 |
| Ethanol (CAS 64-17-5) | PEL | 1900 mg/m3 |
| Ethylbenzene (CAS 100-41-4) | PEL | 1000 ppm |
| | | 435 mg/m3 |
| Xylene (CAS 1330-20-7) | PEL | 100 ppm |
| | | 435 mg/m3 |
| | | 100 ppm |

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

| Components | Type | Value |
|---------------------------------|------|-----------|
| Silicon dioxide (CAS 7631-86-9) | TWA | 0.8 mg/m3 |
| | | 20 mppcf |

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.

IdeaPaint CREATE CLEAR THAT (part A)

CPH MSDS US

909896 Version #: 03 Revision date: 09-13-2012 Issue date: 08-29-2012

3 / 7

9. Physical & Chemical Properties

| | |
|---|---------------------------------|
| Appearance | Transparent liquid |
| Physical state | Liquid. |
| Form | Liquid. |
| Color | Clear. |
| Odor | Mild. |
| Odor threshold | Not available. |
| pH | Not available. |
| Vapor pressure | 0.2 hPa (20°C/68°F) |
| Vapor density | Not available. |
| Boiling point | > 220 °F (> 104.4 °C) |
| Melting point/Freezing point | Not available. |
| Solubility (water) | Insoluble. |
| Specific gravity | 9.5 lbs/gal |
| Flash point | > 190 °F (> 87.8 °C) Closed Cup |
| Flammability limits in air, upper, % by volume | Not available. |
| Flammability limits in air, lower, % by volume | Not available. |
| Auto-ignition temperature | > 572 °F (> 300 °C) |
| VOC | < 25 g/l |
| Evaporation rate | 32 BuAc |
| Partition coefficient (n-octanol/water) | Not available. |

10. Chemical Stability & Reactivity Information

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

11. Toxicological Information

| Toxicological data | | |
|--|--|--------------|
| Components | Species | Test Results |
| Dibutyltin di(acetate) (CAS 1067-33-0) | | |
| Acute | | |
| Oral | | |
| LD50 | Mouse | 109.7 mg/kg |
| | Rat | 32 mg/kg |
| Sensitization | May cause sensitization by skin contact. | |
| Acute effects | Harmful if swallowed. Irritating to eyes and skin. | |
| Local effects | Irritating to eyes and skin. | |
| US. ACGIH Threshold Limit Values | | |
| Dibutyltin di(acetate) (CAS 1067-33-0) | Can be absorbed through the skin. | |
| Chronic effects | Preparation contains an epoxy resin, which may cause sensitization and development of allergy. | |
| Carcinogenicity | Hazardous by OSHA criteria. Hazardous by WHMIS criteria. Cancer hazard. | |
| ACGIH Carcinogens | | |
| Dibutyltin di(acetate) (CAS 1067-33-0) | A4 Not classifiable as a human carcinogen. | |

IdeaPaint CREATE CLEAR THAT (part A)

CPH MSDS US

909896 Version #: 03 Revision date: 09-13-2012 Issue date: 08-29-2012

4 / 7

Ethanol (CAS 64-17-5)

A3 Confirmed animal carcinogen with unknown relevance to humans.

Ethylbenzene (CAS 100-41-4)

A3 Confirmed animal carcinogen with unknown relevance to humans.

Xylene (CAS 1330-20-7)

A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylbenzene (CAS 100-41-4)

2B Possibly carcinogenic to humans.

Silicon dioxide (CAS 7631-86-9)

3 Not classifiable as to carcinogenicity to humans.

Xylene (CAS 1330-20-7)

3 Not classifiable as to carcinogenicity to humans.

US NTP Report on Carcinogens: Known carcinogen

Ethanol (CAS 64-17-5)

Known To Be Human Carcinogen.

Mutagenicity

No data available.

Reproductive effects

May damage fertility or the unborn child.

Symptoms and target organs

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

Further information

No other specific acute or chronic health impact noted.

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.

Partition coefficient

Not available.

Dibutyltin di(acetate)

1.27

Mobility in environmental media

Not available.

13. Disposal Considerations**Waste codes****US RCRA Hazardous Waste U List: Reference**

Xylene (CAS 1330-20-7)

U239

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. (Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, Dibutyltin di(acetate)), MARINE POLLUTANT

Hazard class

9

Packing group

III

Environmental hazards**Marine pollutant**

Yes

Additional information:**Special provisions**

8, 146, 335, IB3, T4, TP1, TP29

Packaging exceptions

155

Packaging non bulk

203

Packaging bulk

241

IATA**UN number**

UN3082

UN proper shipping name

Environmentally hazardous substance, liquid, n.o.s. (Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, Dibutyltin di(acetate))

Transport hazard class(es)

9

Packing group

III

Environmental hazards

Yes

ERG code

9L

IMDG

UN number UN3082
UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, Dibutyltin di(acetate)), MARINE POLLUTANT
Transport hazard class(es) 9
Packing group III
Environmental hazards
 Marine pollutant Yes
EmS No. F-A, S-F
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

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.

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

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Ethylbenzene (CAS 100-41-4)

Xylene (CAS 1330-20-7)

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

Ethylbenzene (CAS 100-41-4)

0.1 %

Xylene (CAS 1330-20-7)

1.0 %

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

Ethylbenzene (CAS 100-41-4)

Listed.

Xylene (CAS 1330-20-7)

Listed.

CERCLA (Superfund) reportable quantity

Ethanol: 100

Ethylbenzene: 1000

Xylene: 100

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

Section 302 extremely hazardous substance (40 CFR 355, Appendix A)

No

Section 311/312 (40 CFR 370)

Yes

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) | No |
| 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) | No |
| New Zealand | New Zealand Inventory | No |

IdeaPaint CREATE CLEAR THAT (part A)

CPH MSDS US

909896 Version #: 03 Revision date: 09-13-2012 Issue date: 08-29-2012

6 / 7

| Country(s) or region | Inventory name | On Inventory (yes/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 this product complies with the inventory requirements administered by the governing country(s) | | |
| State regulations | WARNING: This product contains a chemical known to the State of California to cause cancer. | |
| US - California Hazardous Substances (Director's): Listed substance | | |
| Dibutyltin di(acetate) (CAS 1067-33-0) | Listed. | |
| Ethanol (CAS 64-17-5) | Listed. | |
| Ethylbenzene (CAS 100-41-4) | Listed. | |
| Silicon dioxide (CAS 7631-86-9) | Listed. | |
| Xylene (CAS 1330-20-7) | Listed. | |
| US - California Proposition 65 - CRT: Listed date/Carcinogenic substance | | |
| Ethanol (CAS 64-17-5) | Listed: April 29, 2011 Carcinogenic. | |
| | Listed: July 1, 1988 Carcinogenic. | |
| | Listed: June 11, 2004 Carcinogenic. | |
| US - New Jersey RTK - Substances: Listed substance | | |
| Ethanol (CAS 64-17-5) | Listed. | |
| Ethylbenzene (CAS 100-41-4) | Listed. | |
| Silicon dioxide (CAS 7631-86-9) | Listed. | |
| Xylene (CAS 1330-20-7) | Listed. | |
| US. Massachusetts RTK - Substance List | | |
| Dibutyltin di(acetate) (CAS 1067-33-0) | Listed. | |
| Ethanol (CAS 64-17-5) | Listed. | |
| Ethylbenzene (CAS 100-41-4) | Listed. | |
| Silicon dioxide (CAS 7631-86-9) | Listed. | |
| Xylene (CAS 1330-20-7) | Listed. | |
| US. New Jersey Worker and Community Right-to-Know Act | | |
| Ethylbenzene (CAS 100-41-4) | 500 LBS | |
| Xylene (CAS 1330-20-7) | 500 LBS | |
| US. Pennsylvania RTK - Hazardous Substances | | |
| Ethanol (CAS 64-17-5) | Listed. | |
| Ethylbenzene (CAS 100-41-4) | Listed. | |
| Silicon dioxide (CAS 7631-86-9) | Listed. | |
| Xylene (CAS 1330-20-7) | Listed. | |

16. Other Information

| | |
|----------------------------|--|
| Further Information | HMIS® is a registered trade and service mark of the NPCA. |
| HMIS® ratings | Health: 2* Flammability: 2 |
| NFPA ratings | Health: 2 Flammability: 2 Instability: |
| Disclaimer | The information in the sheet was written based on the best knowledge and experience currently available. |

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name IdeaPaint CREATE CLEAR THIS (part B)
Version # 02
Issue date 08-29-2012
Revision date 09-13-2012
Supersedes date 08-29-2012
CAS # Mixture
Product use Dry erase coating - Part B.
Manufacturer/Supplier IdeaPaint
 290 Eliot Street, 2nd Floor, Ashland, MA 01721
Telephone number 617.714.1050
Emergency +1.866.519.4752 (US, Canada, Mexico)
 +1-760-476-3962 (US, Canada, Mexico)
 Access Code: 333641

2. Hazards Identification

Physical state Liquid.
Appearance Colorless to yellowish liquid.
Emergency overview DANGER! Causes skin, eye and digestive tract burns. Causes respiratory tract irritation.
OSHA regulatory status This product is hazardous according to OSHA 29 CFR 1910.1200.
Potential health effects
 Routes of exposure Eyes. Skin. Inhalation. Ingestion.
 Eyes Causes eye burns.
 Skin Causes skin burns.
 Inhalation Causes respiratory tract irritation.
 Ingestion Causes digestive tract burns.
Target organs Eyes. Skin. Respiratory system. Digestive tract.
Chronic effects None known.
Signs and symptoms Contact with this material will cause burns to the skin, eyes and mucous membranes.
Potential environmental effects The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

3. Composition / Information on Ingredients

| Components | CAS # | Percent |
|------------------------------|----------|---------|
| 3-Aminopropyltriethoxysilane | 919-30-2 | 99 |

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 with plenty of water for at least 15 minutes occasionally lifting upper and lower eyelids. If easy to do, remove contact lenses. Call a physician or poison control center immediately. Get medical attention if symptoms persist.
Skin contact Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.
Inhalation Move injured person into fresh air and keep person calm under observation. Get medical attention.

IdeaPaint CREATE CLEAR THIS (part B)
 909933 Version #: 02 Revision date: 09-13-2012 Issue date: 08-29-2012

CPH MSDS US
 1 / 5

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| Ingestion | Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Obtain medical attention and take along this material safety data sheet. |
| Notes to physician | Treat symptomatically. |
| 5. Fire Fighting Measures | |
| Flammable properties | No unusual fire or explosion hazards noted. |
| Extinguishing media | |
| Suitable extinguishing media | Carbon dioxide, regular foam, dry chemical, water spray, or water fog. |
| Unsuitable extinguishing media | None known. |
| Protection of firefighters | |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed. |
| Protective equipment and precautions for firefighters | Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire fighting equipment/instructions | Use standard firefighting procedures and consider the hazards of other involved materials. Cool containers exposed to heat with water spray and remove container, if no risk is involved. |
| Hazardous combustion products | Nitrogen oxides. |
| 6. Accidental Release Measures | |
| Personal precautions | Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate the area. Avoid any exposure. Wear suitable protective clothing. See Section 8 of the MSDS for Personal Protective Equipment. |
| Environmental precautions | Avoid discharge into drains, water courses or onto the ground unless authorized by permit. |
| Methods for cleaning up | Flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal. |
| 7. Handling and Storage | |
| Handling | Do not breathe mist or vapor. Do not get in eyes, on skin, on clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling. Wear approved safety goggles. Wear protective gloves and appropriate clothing to prevent skin contact. Observe good industrial hygiene practices. |
| Storage | Store in closed original container in a dry place. Store away from incompatible materials. |
| 8. Exposure Controls / Personal Protection | |
| Engineering controls | Provide adequate ventilation and minimize the risk of inhalation of vapors. Eye wash facilities and emergency shower must be available when handling this product. |
| Personal protective equipment | |
| Eye / face protection | Wear approved safety goggles. |
| Skin protection | Wear appropriate chemical resistant gloves. Butyl rubber gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. PVC gloves are recommended. Wear appropriate chemical resistant clothing to prevent any possibility of skin contact. |
| Respiratory protection | If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use. |
| 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 and protective equipment to remove contaminants. |

9. Physical & Chemical Properties

| | |
|---|---|
| Appearance | Colorless to yellowish liquid. |
| Physical state | Liquid. |
| Form | Liquid. |
| Color | Colorless to yellowish. |
| Odor | Amine-like. |
| Odor threshold | Not available. |
| pH | 11.3 at 20 °C |
| Vapor pressure | 0.02 hPa at 20 °C |
| Vapor density | Not available. |
| Boiling point | 428 °F (220 °C) |
| Melting point/Freezing point | < -94 °F (< -70 °C) |
| Solubility (water) | 5.4 g/l at 20°C |
| Specific gravity | 7.88 lbs/gal |
| Flash point | 199 °F (92.8 °C) |
| Flammability limits in air, upper, % by volume | Not available. |
| Flammability limits in air, lower, % by volume | Not available. |
| Auto-ignition temperature | 572 °F (300 °C) |
| VOC | < 100 g/l |
| Viscosity | 2 mPa·s DIN 53015 at 20 °C |
| Partition coefficient (n-octanol/water) | No data available. 1.7 QSAR-method (20 °C) |
| Molecular weight | 221.42 g/mol |
| Molecular formula | C9-H23-N-O3-Si |
| Other data | |
| Explosive limit - lower (%) | 0.8 % |
| Explosive limit - upper (%) | 4.5 % |
| Flammability | not determined |

10. Chemical Stability & Reactivity Information

| | |
|---|---|
| Chemical stability | Stable under normal temperature conditions. |
| Conditions to avoid | Avoid heat, sparks, open flames and other ignition sources. |
| Incompatible materials | Strong oxidizing agents. Acids. |
| Hazardous decomposition products | At elevated temperatures: Carbon monoxide. Carbon dioxide (CO ₂). Nitrogen Oxides. Ethanol in case of hydrolysis. |
| Possibility of hazardous reactions | Will not occur. |

11. Toxicological Information

| | |
|-----------------------------------|---|
| Sensitization | No sensitizing effects known. |
| Acute effects | Causes skin, eye and digestive tract burns. |
| Local effects | Causes skin, eye and digestive tract burns. Causes respiratory tract irritation. |
| Chronic effects | None known. |
| Carcinogenicity | No data available. |
| Mutagenicity | No data available. |
| Reproductive effects | No data available. |
| Symptoms and target organs | Inhalation: May cause damage to mucous membranes in nose, throat, lungs and bronchial system. Eye contact: Prolonged contact causes serious eye and tissue damage. Skin contact: May cause serious chemical burns to the skin. Ingestion: May cause burns in mucous membranes, throat, esophagus and stomach. |

IdeaPaint CREATE CLEAR THIS (part B)

CPH MSDS US

909933 Version #: 02 Revision date: 09-13-2012 Issue date: 08-29-2012

3 / 5

12. Ecological Information

| | |
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| Ecotoxicity | The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |
| Persistence and degradability | No data available. |
| Bioaccumulation / Accumulation | No data available. |
| Partition coefficient 1.7 QSAR-method, (20 °C) | No data available. |
| Mobility in environmental media | Not available. |

13. Disposal Considerations

| | |
|--|--|
| Waste codes | D002: Corrosive waste |
| Disposal instructions | Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. |
| Waste from residues / unused products | Dispose of in accordance with local 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 | UN3267 |
| Proper shipping name | Corrosive liquid, basic, organic, n.o.s. (3-Aminopropyltriethoxysilane) |
| Hazard class | 8 |
| Subsidiary hazard class | - |
| Packing group | II |
| Environmental hazards | |

Marine pollutant No

Additional information:

| | |
|-----------------------------|-------------------------|
| Special provisions | B2, IB2, T11, TP2, TP27 |
| Packaging exceptions | 154 |
| Packaging non bulk | 202 |
| Packaging bulk | 242 |

IATA

| | |
|-----------------------------------|---|
| UN number | UN3267 |
| UN proper shipping name | Corrosive liquid, basic, organic, n.o.s. (3-Aminopropyltriethoxysilane) |
| Transport hazard class(es) | 8 |
| Subsidiary class(es) | - |
| Packing group | II |
| Environmental hazards | No |
| ERG code | 8L |

IMDG

| | |
|-----------------------------------|---|
| UN number | UN3267 |
| UN proper shipping name | CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (3-Aminopropyltriethoxysilane) |
| Transport hazard class(es) | 8 |
| Subsidiary class(es) | - |
| Packing group | II |
| Environmental hazards | |
| Marine pollutant | No |
| EmS No. | F-A, S-B |

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. |
|-------------------------------|---|

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

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

CERCLA (Superfund) reportable quantity

None

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

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - Yes

Pressure Hazard - No

Reactivity Hazard - No

Section 302 extremely hazardous substance (40 CFR 355, Appendix A)

No

Section 311/312 (40 CFR 370)

Yes

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) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | Yes |
| 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 this product complies 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. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

16. Other Information**Further information**

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 3

Flammability: 2

Physical hazard: 0

NFPA ratings

Health: 3

Flammability: 2

Instability: 0

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.