### **SAFETY DATA SHEETS**

### This SDS packet was issued with item:

075556881

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

075556840 075556865 075556873 075556899



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### **Material Safety Data Sheet**

DATE OF ISSUE: April 16, 2012 ISSUED BY PASCAL

**Product Name:** Occlude®

#### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name Occlude®

Product Use: Aerosol Indicator Marking Spray

Manufacturer Name Pascal International, Inc. Address 2929 NE Northup Way

Bellevue, Washington 98004

Emergency Telephone (Infotrac): 1-800-535-5053, 1-352-323-3500

Telephone 1-425-827-4694, 1-800-426-8051

Fax 1-425-827-6893

#### 2. HAZARDS IDENTIFICATION

Hazard Irritating to eyes. Can is under pressure. Unusual

fire and explosion hazard. Inhalation of large quantities of propellant may displace oxygen in

lungs.

Risk Phrases R12: Highly flammable

R18: Vapor may form flammable mixtures with air

R36: Irritating to eyes. R20: Harmful by inhalation

Safety Phrases S2: Keep out of the reach of children

S15: Keep away from heat.S23: Do not breathe vapor.S25: Avoid contact with eyes.

#### 3. Composition / Information on Ingredients

Mixture	Chemical Entity	CAS No.	Proportion*	ACGIH TLV
Propellant	Isobutane	75-28-5	97%	1000 ppm
	N-Butane	106-97-8	2%	1000 ppm
	Propane	74-98-6	1%	1000 ppm

#### 4. FIRST AID MEASURES

Inhalation Move to fresh air. If unconscious, give oxygen Ingestion Ingestion of normal quantities is non-toxic.

Skin N/A

Eve Flush with water for 15 minutes. Seek medical aid.



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### **Material Safety Data Sheet**

DATE OF ISSUE: April 16, 2012 ISSUED BY PASCAL

**Product Name:** Occlude®

#### 5. FIRE FIGHTING MEASURES

Extinguishing Media: CO<sub>2</sub>, Foam, Dry Chemical, Water

Specific Hazards: Extremely flammable and combustible. Temperature

above 50°C/120°F may cause bursting and contents

under pressure may discharge.

Precautions in connection with

Confine fire to immediate area.

Fire:

Use of self contained breathing apparatus is

recommended. Wear protective clothing to prevent

contact with skin and eyes.

#### 6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures: Provide adequate ventilation.

Clean Up Procedure: Use soap and water after propellant has been

dispersed.

#### 7. HANDLING AND STORAGE

Handling Content is under pressure. Keep away from fire.

Flammable. Do not puncture.

Storage Content is under pressure. Store in a cool, dry area

away from heat sources and/or prolonged exposure to

sun. Keep away from fire. Flammable. Do not

puncture.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits Not determined

Respiratory Protection Dust mask recommended.

Eye Protection Recommended

Hand Protection Gloves recommended
Engineering Controls Normal room ventilation

Biological Limit Values Not determined

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Red or green powder dispensed as an aerosol.

Odor Odorless



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### **Material Safety Data Sheet**

DATE OF ISSUE: April 16, 2012 ISSUED BY PASCAL

**Product Name:** Occlude®

Vapor Pressure (mm Hg and (Isobutane @ 32° F) 1,519.0

Temperature)

Vapor Density (AIR=1) (Isobutane) 2.01 Boiling Point (Isobutane) 10.9° F Freezing / Melting Point Not Determined

Solubility in Water Minimal

Specific Gravity (Isobutane) 0.5631 Evaporation Rate Not Determined

Water Reactive N/A Flash Point 120° F

Flammable Limits LEL Maintain level below 0.25 LEL. May displace

oxygen in air

Flammable Limits UEL Not determined

#### 10. STABILITY AND REACTIVITY

Chemical Stability Stable Conditions to Avoid N/A

Incompatible Materials May react with oxidizing materials.

Hazardous Decomposition None known

Products

Hazardous Reactions None known

#### 11. TOXICOLOGICAL INFORMATION

Hazardous Ingredient: N/A
Routes of Exposure: N/A

#### 12. ECOLOGICAL INFORMATION

Ecotoxicity Contains no CFC's. Propellants are ecologically

safe.

Persistence and Degradability Not determined Mobility Not determined

#### 13. DISPOSAL CONSIDERATIONS

Disposal Method and Containers Empty containers may be disposed of in waste

containers.



Page 4 of 4

### **Material Safety Data Sheet**

DATE OF ISSUE: April 16, 2012 ISSUED BY PASCAL

**Product Name:** Occlude®

Special Precautions Do not incinerate. Do not crush. Dispose in

accordance with all local, state and federal

regulations.

#### 14. TRANSPORT INFORMATION

UN Number UN1950

UN Proper Shipping Name Aerosol, flammable

Class and Subsidiary Risk 2.1 Packing Group N/A

Special Precautions for User Maximum 75kg on passenger aircraft/rail.

Hazchem Code 17

#### 15. REGULATORY INFORMATION

Consumer Commodity ORM-D, ID 8000

AICS (Australia) All ingredients are listed

Precautionary Phrases: For professional in-office use only.

Keep out of reach of children.

Note: Refer to applicable international, national, and local

regulations and provisions.

#### 16. OTHER INFORMATION

Legal Disclaimer: Information contained in this MSDS is based on data

believed to be correct. This information does not purport to be all inclusive and shall be used only as a guide. No warranty is expressed or implied regarding the accuracy of this data or the results to be obtained

from the use thereof. In no event will the

manufacturer or the distributor be responsible for damages of any nature whatsoever resulting from the

use of or reliance upon this information.

MSDS History Date of Issue: April 16, 2012

Replaces Issue: April 15, 2009

Changes made to previous issue: No changes



DATE OF ISSUE: June 15, 2014 ISSUED BY PASCAL

Occlude<sup>®</sup> **Product Name:** 

#### IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Occlude® Product Name

Product Use: Aerosol Indicator Marking Spray

Manufacturer Name Pascal International, Inc. Address 2929 NE Northup Way

Bellevue, Washington 98004

1-800-535-5053, 1-352-323-3500 Emergency Telephone (Infotrac): Telephone 1-425-827-4694, 1-800-426-8051

Fax 1-425-827-6893

#### 2. HAZARDS IDENTIFICATION

Hazard Category 1: 2.3/1 Extremely flammable aerosol

> Can is under pressure Irritating to eyes

Inhalation of large quantities of propellant may displace oxygen in lungs Danger

Risk Phrases R12: Extremely flammable

R18: Vapor may form flammable mixtures with air

R36: Irritating to eyes. R20: Harmful by inhalation

S2: Keep out of the reach of children Safety Phrases

> S15: Keep away from heat. S23: Do not breathe vapor. S25: Avoid contact with eyes.

#### **COMPOSITION / INFORMATION ON INGREDIENTS** 3.

Mixture Chemical Entity CAS No. Proportion\* **ACGIH TLV** 97% Propellant Isobutane 75-28-5 1000 ppm 2% 106-97-8 1000 ppm N-Butane 74-98-6 1000 ppm Propane 1%

#### FIRST AID MEASURES

Inhalation Move to fresh air. If unconscious, give oxygen Ingestion of normal quantities is non-toxic. Ingestion

Skin N/A

Eye Flush with water for 15 minutes. Seek medical aid.



DATE OF ISSUE: June 15, 2014 ISSUED BY PASCAL

**Product Name:** Occlude®

#### 5. FIRE FIGHTING MEASURES

Extinguishing Media: CO<sub>2</sub>, Foam, Dry Chemical, Water

Specific Hazards: Extremely flammable and combustible. Temperature

above 50°C/120°F may cause bursting and contents

under pressure may discharge.

Precautions in connection with

tion with Confine fire to immediate area.

Fire: Use of self contained breathing apparatus is

recommended. Wear protective clothing to prevent

contact with skin and eyes.

#### 6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures: Provide adequate ventilation.

Clean Up Procedure: Use soap and water after propellant has been

dispersed.

#### 7. HANDLING AND STORAGE

Handling Content is under pressure. Keep away from fire.

Flammable. Do not puncture.

Storage Content is under pressure. Store in a cool, dry area

away from heat sources and/or prolonged exposure to sun. Keep away from fire. Flammable. Do not

puncture.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits Not determined

Respiratory Protection Dust mask recommended.

Eve Protection Recommended

Hand Protection Gloves recommended
Engineering Controls Normal room ventilation

Biological Limit Values Not determined

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Red or green powder dispensed as an aerosol.

Odor Odorless

Vapor Pressure (mm Hg and (Isobutane @ 32° F) 1,519.0

Temperature)

Vapor Density (AIR=1) (Isobutane) 2.01 Boiling Point (Isobutane) 10.9° F



DATE OF ISSUE: June 15, 2014 ISSUED BY PASCAL

**Product Name:** Occlude®

Freezing / Melting Point Not Determined

Solubility in Water Minimal

Specific Gravity (Isobutane) 0.5631 Evaporation Rate Not Determined

Water Reactive N/A Flash Point 120° F

Self-igniting Product is not self-igniting

Flammable Limits LEL Maintain level below 0.25 LEL. May displace

oxygen in air

None known

Flammable Limits UEL Not determined

#### 10. STABILITY AND REACTIVITY

Chemical Stability Stable
Conditions to Avoid N/A

Incompatible Materials May react with oxidizing materials.

Hazardous Decomposition

**Products** 

Hazardous Reactions None known

#### 11. TOXICOLOGICAL INFORMATION

Hazardous Ingredient N/A
Routes of Exposure N/A

Skin No irritant effect
Eyes No irritating effect

Sensitization No sensitizing effects known

#### 12. ECOLOGICAL INFORMATION

Ecotoxicity Contains no CFC's. Propellants are ecologically

safe. Not hazardous for water.

Persistence and Degradability Not determined Mobility Not determined

#### 13. DISPOSAL CONSIDERATIONS

Disposal Method and Containers Empty containers may be disposed of in waste

containers.

Special Precautions Do not incinerate. Do not crush. Dispose in

accordance with all local, state and federal

regulations.



DATE OF ISSUE: June 15, 2014 ISSUED BY PASCAL

**Product Name:** Occlude®

#### 14. TRANSPORT INFORMATION

UN Number UN1950

UN Proper Shipping Name Aerosol, flammable

Class and Subsidiary Risk

Packing Group

N/A

Special Precautions for User

Hazchem Code

TMS Newskard

F. D. 6

EMS Numbers: F-D, S-U

Marine Pollutant: No

Transport Required Labeling:



Air Transport:







Maritime Transport:



#### 15. REGULATORY INFORMATION

Consumer Commodity ORM-D (Ground), ID 8000 (Air)

AICS (Australia) All ingredients are listed

Precautionary Phrases: For professional in-office use only.

Keep out of reach of children.

Note: Refer to applicable international, national, and local

regulations and provisions.

#### 16. OTHER INFORMATION

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believed to be correct. This information does not purport to be all inclusive and shall be used only as a guide. No warranty is expressed or implied regarding the accuracy of this data or the results to be obtained

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DATE OF ISSUE: June 15, 2014 ISSUED BY PASCAL

Product Name: Occlude®

MSDS History Date of Issue: June 15, 2014

Replaces Issue: April 16, 2012

Changes made to previous issue: MSDS to SDS; Added SDS hazard pictogram; GHS classification;

transport pictograms