

# Material Safety Data Sheet

BDT Passion Flower Color Preserving Conditioner

## 1. Product and company identification

<b>Product name</b>	: BDT Passion Flower Color Preserving Conditioner
<b>Manufacturer</b>	: Zotos International, INC 100 Tokeneke Road, Darien, CT 06820 www.zotos.com
<b>Validation date</b>	: 3/11/2013.
<b><u>In case of emergency</u></b>	(800) 584-8038 [24 Hours]
<b><u>Telephone number</u></b>	(203) 656-7859 [8:30 a.m. - 5:00 p.m.]
<b><u>Transportation Emergency</u></b>	Contact: CHEMTREC 1-800-424-9300 [US/Canada 24 Hours]
<b>Product type</b>	: Liquid.

## 2. Hazards identification

### Emergency overview

NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

<b>Color</b>	: White. Off-white.
<b>Odor</b>	: Fragrance-like.
<b>Hazard statements</b>	: CAUSES EYE AND SKIN IRRITATION.
<b>Precautionary measures</b>	: Do not breathe vapor or mist. Do not eat, drink or smoke when using this product. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

**OSHA/HCS status** : None.

### Potential acute health effects

<b>Inhalation</b>	: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
<b>Ingestion</b>	: No known significant effects or critical hazards.
<b>Skin</b>	: Severely irritating to the skin.
<b>Eyes</b>	: Severely irritating to eyes. Risk of serious damage to eyes.

### Potential chronic health effects

<b>Chronic effects</b>	: Contains material that may cause target organ damage, based on animal data.
<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.

**Over-exposure signs/symptoms** : None identified.

**Medical conditions aggravated by over-exposure** : None.

**See toxicological information (Section 11)**

### 3. Composition/information on ingredients

#### United States

Name	CAS number	%
hexadecan-1-ol	36653-82-4	3.60
Siloxanes and Silicones, di-Me	63148-62-9	2.00
decamethylcyclopentasiloxane	541-02-6	1.40

#### Canada

Name	CAS number	%
hexadecan-1-ol	36653-82-4	3.60
Siloxanes and Silicones, di-Me	63148-62-9	2.00

#### Mexico

Name	CAS number	UN number	%	IDLH	Classification			
					H	F	R	Special
decamethylcyclopentasiloxane	541-02-6	Not available.	1.40	-	1	0	0	-
Siloxanes and Silicones, di-Me	63148-62-9	Not available.	2.00	-	2	0	0	-
hexadecan-1-ol	36653-82-4	Not available.	3.60	-	2	0	0	-

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4. First aid measures

- Eye contact** : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. May cause eye irritation.
- Skin contact** : Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. Discontinue use of product. Apply cold compresses to affected areas to relieve any discomfort. Seek medical attention if irritation persists.
- Inhalation** : Move affected person to fresh air.
- Ingestion** : Have conscious person drink several glasses of water or milk. Do not induce vomiting. Get medical attention if adverse health effects persist or are severe.
- Protection of first-aiders** : Use suitable protective equipment (section 8).
- Notes to physician** : Treat symptomatically.

### 5. Fire-fighting measures

- Flammability of the product** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Extinguishing media** : Extinguish fire using an agent suitable for the surrounding fire. Dike liquid for later disposal.
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special fire-fighting procedures** : None.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
halogenated compounds  
metal oxide/oxides

## 5. Fire-fighting measures

**Special protective equipment for fire-fighters** : Non-combustible. No special recommendations.

## 6. Accidental release measures

**Personal precautions** : Do not touch or walk through spilled material. Keep container closed.

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Methods for cleaning up** : Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Place spilled material in an appropriate container for disposal. After contact with skin, wash immediately with plenty of water.

## 7. Handling and storage

**Handling** : Avoid contact with skin and eyes. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10).

**Storage** : Keep container tightly closed. Store in a dry place.

## 8. Exposure controls/personal protection

### Canada

#### Occupational exposure limits

No exposure limit value known.

### Mexico

#### Occupational exposure limits

No exposure limit value known.

### **Consult local authorities for acceptable exposure limits.**

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Engineering measures** : In case of insufficient ventilation, wear suitable respiratory equipment.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protection

**Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Hands** : Wear suitable gloves.

**Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

**Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Environmental exposure controls** : 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.

**Other protection** : Not available.

## 9. Physical and chemical properties

<b>Physical state</b>	: Liquid. [Viscous liquid.]
<b>Flash point</b>	: Closed cup: Not applicable.
<b>Color</b>	: White. Off-white.
<b>Odor</b>	: Fragrance-like.
<b>pH</b>	: 3 to 4.5
<b>Boiling/condensation point</b>	: >100°C (>212°F)
<b>Relative density</b>	: 0.99 to 1.1

## 10. Stability and reactivity

<b>Chemical stability</b>	: Stable under recommended storage and handling conditions (see section 7).
<b>Conditions to avoid</b>	: No specific data.
<b>Incompatible materials</b>	: No specific data.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.

## 11. Toxicological information

### United States

#### Acute toxicity

Product/ingredient name	Result	Dose	Exposure
decamethylcyclopentasiloxane	LD50 Oral	>24134 mg/kg	-
Siloxanes and Silicones, di-Me	LD50 Oral	>17 g/kg	-
hexadecan-1-ol	LD50 Oral	5 g/kg	-

**Conclusion/Summary** : Not available.

#### Chronic toxicity

**Conclusion/Summary** : Not available.

#### Irritation/Corrosion

Product/ingredient name	Result	Score	Exposure	Observation
decamethylcyclopentasiloxane	Eyes - Mild irritant	-	24 hours 500 milligrams	-
	Skin - Mild irritant	-	24 hours 500 milligrams	-
Siloxanes and Silicones, di-Me	Eyes - Mild irritant	-	1 hours 100 milligrams	-
	Eyes - Mild irritant	-	24 hours 100 microliters	-
	Eyes - Moderate irritant	-	24 hours 100 microliters	-
	Skin - Mild irritant	-	24 hours 500 microliters	-
hexadecan-1-ol	Eyes - Mild irritant	-	82 milligrams	-
	Skin - Mild irritant	-	100 Percent	-
	Skin - Moderate irritant	-	24 hours 100 milligrams	-
	Skin - Mild irritant	-	72 hours 75 milligrams Intermittent	-
	Skin - Severe irritant	-	0.2 Percent	-
	Skin - Mild irritant	-	48 hours 50 milligrams	-
	Skin - Severe irritant	-	24 hours 100 milligrams	-

## 11. Toxicological information

	Skin - Mild irritant	-	24 hours 2600 milligrams	-
	Skin - Severe irritant	-	24 hours 100 milligrams	-

**Conclusion/Summary** : Not available.

**Sensitizer**

**Conclusion/Summary** : Not available.

**Carcinogenicity**

**Conclusion/Summary** : No carcinogenic effect.

**Mutagenicity**

**Conclusion/Summary** : Not available.

**Teratogenicity**

**Conclusion/Summary** : Not available.

**Reproductive toxicity**

**Conclusion/Summary** : Not available.

**Canada**

**Acute toxicity**

Product/ingredient name	Result	Dose	Exposure
Siloxanes and Silicones, di-Me hexadecan-1-ol	LD50 Oral	>17 g/kg	-
	LD50 Oral	5 g/kg	-

**Conclusion/Summary** : Not available.

**Chronic toxicity**

**Conclusion/Summary** : Not available.

**Irritation/Corrosion**

Product/ingredient name	Result	Score	Exposure	Observation
Siloxanes and Silicones, di-Me hexadecan-1-ol	Eyes - Mild irritant	-	1 hours 100 milligrams	-
	Eyes - Mild irritant	-	24 hours 100 microliters	-
	Eyes - Moderate irritant	-	24 hours 100 microliters	-
	Skin - Mild irritant	-	24 hours 500 microliters	-
	Eyes - Mild irritant	-	82 milligrams	-
	Skin - Mild irritant	-	100 Percent	-
	Skin - Moderate irritant	-	24 hours 100 milligrams	-
	Skin - Mild irritant	-	72 hours 75 milligrams	-
	Skin - Severe irritant	-	Intermittent	-
	Skin - Mild irritant	-	0.2 Percent	-
	Skin - Severe irritant	-	48 hours 50 milligrams	-
	Skin - Severe irritant	-	24 hours 100 milligrams	-
	Skin - Mild irritant	-	24 hours 2600 milligrams	-
	Skin - Severe irritant	-	24 hours 100 milligrams	-

**Conclusion/Summary** : Not available.

**Sensitizer**

**Conclusion/Summary** : Not available.

**Carcinogenicity**

## 11. Toxicological information

**Conclusion/Summary** : Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Mexico

#### Acute toxicity

Product/ingredient name	Result	Dose	Exposure
decamethylcyclopentasiloxane	LD50 Oral	>24134 mg/kg	-
Siloxanes and Silicones, di-Me	LD50 Oral	>17 g/kg	-
hexadecan-1-ol	LD50 Oral	5 g/kg	-

**Conclusion/Summary** : Not available.

### Chronic toxicity

**Conclusion/Summary** : Not available.

### Irritation/Corrosion

Product/ingredient name	Result	Score	Exposure	Observation
decamethylcyclopentasiloxane	Eyes - Mild irritant	-	24 hours 500 milligrams	-
	Skin - Mild irritant	-	24 hours 500 milligrams	-
Siloxanes and Silicones, di-Me	Eyes - Mild irritant	-	1 hours 100 milligrams	-
	Eyes - Mild irritant	-	24 hours 100 microliters	-
	Eyes - Moderate irritant	-	24 hours 100 microliters	-
hexadecan-1-ol	Skin - Mild irritant	-	24 hours 500 microliters	-
	Eyes - Mild irritant	-	82 milligrams	-
	Skin - Mild irritant	-	100 Percent	-
	Skin - Moderate irritant	-	24 hours 100 milligrams	-
	Skin - Mild irritant	-	72 hours 75 milligrams Intermittent	-
	Skin - Severe irritant	-	0.2 Percent	-
	Skin - Mild irritant	-	48 hours 50 milligrams	-
	Skin - Severe irritant	-	24 hours 100 milligrams	-
	Skin - Mild irritant	-	24 hours 2600 milligrams	-
Skin - Severe irritant	-	24 hours 100 milligrams	-	

**Conclusion/Summary** : Not available.

### Sensitizer

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Teratogenicity

## 11. Toxicological information

**Conclusion/Summary** : Not available.

**Reproductive toxicity**

**Conclusion/Summary** : Not available.

## 12. Ecological information

THE FOLLOWING DATA IN THIS SECTION IS SOURCED FROM PUBLICLY AVAILABLE DATABASES AND NOT THE REPRESENTATION OF ANY DATA COLLECTED BY ZOTOS INTERNATIONAL OR ITS AFFILIATES.

**Ecotoxicity** : No known significant effects or critical hazards.

**United States**

**Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure
Siloxanes and Silicones, di-Me	Acute LC50 44500 ug/L Fresh water	Daphnia - Daphnia magna - Instar - 1 to 48 hours	48 hours
	Acute LC50 3160 ug/L Fresh water	Fish - Ictalurus punctatus	96 hours

**Conclusion/Summary** : Not available.

**Persistence/degradability**

**Conclusion/Summary** : Not available.

**Canada**

**Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure
Siloxanes and Silicones, di-Me	Acute LC50 44500 ug/L Fresh water	Daphnia - Daphnia magna - Instar - 1 to 48 hours	48 hours
	Acute LC50 3160 ug/L Fresh water	Fish - Ictalurus punctatus	96 hours

**Conclusion/Summary** : Not available.

**Persistence/degradability**

**Conclusion/Summary** : Not available.

**Mexico**

**Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure
Siloxanes and Silicones, di-Me	Acute LC50 44500 ug/L Fresh water	Daphnia - Daphnia magna - Instar - 1 to 48 hours	48 hours
	Acute LC50 3160 ug/L Fresh water	Fish - Ictalurus punctatus	96 hours

**Conclusion/Summary** : Not available.

**Persistence/degradability**

**Conclusion/Summary** : Not available.

## 13. Disposal considerations

**Waste disposal** : Dispose of according to all federal, state and local applicable regulations.

**Contaminated packaging** : Waste must be disposed of according to applicable regulations. This material and its container must be disposed of as hazardous waste.

**Waste residues information** : Waste must be disposed of according to applicable regulations. This material and its container must be disposed of as hazardous waste.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
Mexico Classification	Not regulated.	-	-	-		-
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG\* : Packing group

## 15. Regulatory information

### United States

**HCS Classification** : Irritating material  
Target organ effects

**U.S. Federal regulations** : TSCA : Exempt

**SARA 302/304/311/312 extremely hazardous substances:** No products were found.

**SARA 302/304 emergency planning and notification:** No products were found.

**SARA 302/304/311/312 hazardous chemicals:** Isopropyl alcohol

**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:**  
Isopropyl alcohol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

**Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### State regulations

**Massachusetts** : The following components are listed: ISOPROPYL ALCOHOL

**New York** : None of the components are listed.

**New Jersey** : The following components are listed: ISOPROPYL ALCOHOL; 2-PROPANOL

**Pennsylvania** : The following components are listed: 2-PROPANOL

### California Prop. 65

CALIFORNIA PROPOSITION 65: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. This product is not known to the State of California to cause cancer.

**United States inventory (TSCA 8b)** : Not determined.



## 15. Regulatory information

### Canada

**WHMIS (Canada)** : Class D-2B: Material causing other toxic effects (Toxic).

### Canadian lists

**Canadian NPRI** : The following components are listed: Isopropyl alcohol

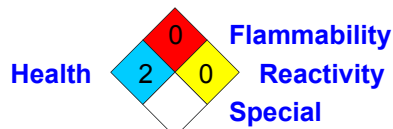
**CEPA Toxic substances** : The following components are listed: Cyclopentasiloxane, decamethyl-

**Canada inventory** : Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### Mexico

**Classification** :



### International regulations

**Chemical Weapons Convention List Schedule I Chemicals** : Not listed

**Chemical Weapons Convention List Schedule II Chemicals** : Not listed

**Chemical Weapons Convention List Schedule II Chemicals** : Not listed

**Chemical Weapons Convention List Schedule III Chemicals** : Not listed

**Chemical Weapons Convention List Schedule III Chemicals** : Not listed

**Chemical Weapons Convention List Schedule III Chemicals** : Not listed

## 16. Other information

**Hazardous Material Information System (U.S.A.)** :

Health	2
Flammability	0
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

**National Fire Protection Association (U.S.A.)** :



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## 16. Other information

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

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**Prepared by** : Regulatory Affairs Group

✔ Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.