Material Safety Data Sheet

BDT Macadamia Oil Nourishing Conditioner

1. Product and company identification

Product name BDT Macadamia Oil Nourishing Conditioner

Manufacturer Zotos International, INC

> 100 Tokeneke Road, Darien, CT 06820 www.zotos.com

Validation date : 3/7/2013.

In case of emergency (800) 584-8038 [24 Hours]

Telephone number (203) 656-7859 [8:30 a.m. - 5:00 p.m.]

Contact: CHEMTREC 1-800-424-9300 [US/Canada 24 Hours] **Transportation Emergency**

Product type : Liquid.

2. Hazards identification

Emergency overview

Color : White.

Odor Fragrance-like.

Hazard statements : MAY CAUSE EYE AND SKIN IRRITATION.

Precautionary measures : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Potential acute health effects

Inhalation : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards.

Skin : Moderately irritating to the skin. **Eyes** : Moderately irritating to eyes.

Potential chronic health effects

Chronic effects : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. Mutagenicity : No known significant effects or critical hazards. **Teratogenicity** No known significant effects or critical hazards. **Developmental effects** : No known significant effects or critical hazards. **Fertility effects** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation : No specific data. Ingestion : No specific data.

Skin Adverse symptoms may include the following:

> irritation redness

Eyes : Adverse symptoms may include the following:

> irritation watering redness

Medical conditions

aggravated by over-

exposure

: None known.

See toxicological information (Section 11)

3. Composition/information on ingredients

United States

Name	CAS number	%
isopropyl palmitate	142-91-6	1.50
Siloxanes and Silicones, di-Me	63148-62-9	1.00

Canada

Name	CAS number	%
isopropyl palmitate	142-91-6	1.50
Siloxanes and Silicones, di-Me	63148-62-9	1.00

Mexico

						Cla	assific	ation
Name	CAS number	UN number	%	IDLH	Н	F	R	Special
isopropyl palmitate	142-91-6	Not available.	1.50	-	2	0	0	-
Siloxanes and Silicones, di- Me	63148-62-9	Not available.	1.00	-	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

: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact

: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation

Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion

: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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

Suitable

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

: None known.

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.

Hazardous thermal decomposition products Decomposition products may include the following materials: carbon dioxide carbon monoxide

5. Fire-fighting measures

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

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 Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

Handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. 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. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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.

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8. Exposure controls/personal protection

Engineering measures

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

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

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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

Physical state : Liquid.

Flash point : Closed cup: Not applicable.

Color : White.

Odor : Fragrance-like.

pH : 4 Relative density : 0.98

10. Stability and reactivity

Chemical stability

: The product is stable.

Conditions to avoid

No specific data.

Incompatible materials

Hazardous decomposition

: No specific data.

products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

not be produce

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

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11. Toxicological information

United States

Acute toxicity

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

Conclusion/Summary

Chronic toxicity

: Not available.

Conclusion/Summary: Not available.

Irritation/Corrosion

Product/ingredient name	Result	Score	Exposure	Observation
isopropyl palmitate	Skin - Mild irritant	-	72 hours 84 milligrams Intermittent	-
	Skin - Moderate 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	-

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
isopropyl palmitate		>5 g/kg	-
	LD50 Oral	>5 g/kg	-
Siloxanes and Silicones, di-Me	LD50 Oral	>17 g/kg	_

Conclusion/Summary

: Not available.

Chronic toxicity

Conclusion/Summary: Not available.

Irritation/Corrosion

Product/ingredient name	Result	Score	Exposure	Observation

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isopropyl palmitate	Skin - Mild irritant	-	72 hours 84	-
			milligrams Intermittent	
	Ckin Moderate irritant			
	Skin - Moderate 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	

Conclusion/Summary

: Not available.

Sensitizer

Conclusion/Summary: Not available.

Carcinogenicity

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
isopropyl palmitate	LD50 Dermal	>5 g/kg	-
	LD50 Oral	>5 g/kg	-
Siloxanes and Silicones, di-Me	LD50 Oral	>17 g/kg	-

Conclusion/Summary

: Not available.

Chronic toxicity

Conclusion/Summary: Not available.

Irritation/Corrosion

Product/ingredient name	Result	Score	Exposure	Observation
isopropyl palmitate	Skin - Mild irritant	-	72 hours 84 milligrams Intermittent	-
	Skin - Moderate 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	-

Conclusion/Summary

: Not available.

<u>Sensitizer</u>

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary: Not available.

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11. Toxicological information

Mutagenicity

Conclusion/Summary

: Not available.

Teratogenicity

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

v : 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.

Other adverse effects: No known significant effects or critical hazards.

13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been

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13. Disposal considerations

cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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 available.	Not available.	Not available.	-		-
TDG Classification	Not available.	Not available.	Not available.	-		-
Mexico Classification	Not available.	Not available.	Not available.	-		-
ADR/RID Class	Not available.	Not available.	Not available.	-		-
IMDG Class	Not available.	Not available.	Not available.	-		-
IATA-DGR Class	Not available.	Not available.	Not available.	-		-

PG*: Packing group

15. Regulatory information

United States

HCS Classification : Irritating material 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: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No

products were found.

Clean Air Act Section 112(b) Hazardous Air **Pollutants (HAPs)**

: Not listed

Clean Air Act Section 602 : Not listed

Class I Substances

Clean Air Act Section 602

: Not listed

Class II Substances DEA List I Chemicals

: Not listed

(Precursor Chemicals)

: Not listed

DEA List II Chemicals (Essential Chemicals)

State regulations

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

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15. Regulatory information

Pennsylvania : None of the components are listed.

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.

Canada

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

Canadian lists

Canadian NPRI : None of the components are listed. **CEPA Toxic substances** : None of the components are listed.

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 : Not listed

Convention List Schedule I

Chemicals

Chemical Weapons

Convention List Schedule

II Chemicals

Chemical Weapons

Convention List Schedule

III Chemicals

: Not listed

: Not listed

16. Other information

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



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.)



16. Other information

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Date of printing : 3/7/2013.

Date of issue : 3/7/2013.

Date of previous issue : No previous validation.

Version : 0.01

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 quarantee that these are the only hazards that exist.

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