



# **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment
010	Health Hazard 2 Fire Hazard 1	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification Page Number: 1			
Common Name/ Trade Name	Dioctyl Adipate	Catalog Number(s).	D1246
		CAS#	103-23-1
Manufacturer	SPECTRUM CHEMICAL MFG. CORP.	RTECS	AU9700000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Dioctyl Adipate
Commercial Name(s)	Not available.	CI#	Not available.
Synonym	Bis(2-Ethylhexyl) Adipate	DI CASE O	DE EMEDICENION
Chemical Name	Dioctyl Adipate		<u>DF EMERGENCY</u> EC (24hr) 800-424-9300
Chemical Family	Not available.	CALL (310)	) 516-8000
Chemical Formula	C22-H42-O4		
Supplier	SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	-	

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name		CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Dioctyl Adipate		103-23-1				100
Toxicological Data on Ingredients	Dioctyl Adipate: ORAL (LD50):	Acute: 9100 mg	/kg [Rat]. 15000 mg	/kg [Mouse].		

Section 3. Hazards Identification		
<b>Potential Acute Health Effects</b>	Hazardous in case of eye contact (irritant), of inhalation (lung irritant).	
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Classified Development toxin [POSSIBLE]. The substance is toxic to blood, the reproductive system, liver, upper respiratory tract. Repeated or prolonged exposure to the substance can produce target organs damage.	

Dioctyl Adipate	Page Number: 2		
Section 4. First Aid Measures			
Eye Contact	Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.		
Skin Contact	No known effect on skin contact, rinse with water for a few minutes.		
Serious Skin Contact	Not available.		
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.		
Serious Inhalation	Not available.		
Ingestion	Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.		
<b>Serious Ingestion</b>	Not available.		

Section 5. Fire and Explosion Data		
Flammability of the Product	May be combustible at high temperature.	
<b>Auto-Ignition Temperature</b>	Not available.	
Flash Points	CLOSED CUP: 206°C (402.8°F).	
Flammable Limits	Not available.	
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO2).	
Fire Hazards in Presence of Various Substances	Not available.	
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available.  Risks of explosion of the product in presence of static discharge: Not available.	
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.	
Special Remarks on Fire Hazards	Not available.	
Special Remarks on Explosion Hazards	Not available.	

Section 6. Accidental Release Measures		
Small Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal.	
Large Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.	

Section 7. Handling and Storage		
Precautions	Keep locked up Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/spray. Avoid contact with eyes Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.	
Storage	Keep container dry. Keep in a cool place. Ground all equipment containing material. Carcinogenic, teratogenic or mutagenic materials should be stored in a separate locked safety storage cabinet or room.	

Dioctyl Adipate	Page Number: 3
Section 8. Exposure	Controls/Personal Protection
<b>Engineering Controls</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
<b>Personal Protection</b>	Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
<b>Exposure Limits</b>	Not available.

Section 9. Physical and Chemical Properties			
Physical state and appearance	Liquid.	Odor	Aromatic. (Slight.)
Molecular Weight	370.58 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Amber. (Light.)
<b>Boiling Point</b>	214°C (417.2°F)		
<b>Melting Point</b>	-67°C (-88.6°F)		
Critical Temperature	Not available.		
Specific Gravity	Not available.		
Vapor Pressure	Not available.		
Vapor Density	12.8 (Air = 1)		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
<b>Dispersion Properties</b>	See solubility in water, methanol, diethyl ether, n-octanol, acetone.		
Solubility	Soluble in methanol, diethyl ether, n-octanol, ace	tone.	

Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
<b>Instability Temperature</b>	Not available.	
<b>Conditions of Instability</b>	Not available.	
Incompatibility with various substances	Highly reactive with oxidizing agents, acids.	
Corrosivity	Not available.	
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	No.	

Dioctyl Adipate	Page Number: 4
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Section 11. Toxicological Information		
<b>Routes of Entry</b>	Eye contact. Inhalation. Ingestion.	
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 9100 mg/kg [Rat].	
Chronic Effects on Humans	CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC.  DEVELOPMENTAL TOXICITY: Classified Development toxin [POSSIBLE].  The substance is toxic to blood, the reproductive system, liver, upper respiratory tract.	
Other Toxic Effects on Humans	Hazardous in case of inhalation (lung irritant).	
Special Remarks on Toxicity to Animals	Not available.	
Special Remarks on Chronic Effects on Humans	Not available.	
Special Remarks on other Toxic Effects on Humans	Not available.	

Section 12. Ecological Information		
Ecotoxicity	Not available.	
BOD5 and COD	Not available.	
<b>Products of Biodegradation</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.	
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.	
Special Remarks on the Products of Biodegradation	Not available.	

### Section 13. Disposal Considerations

Waste Disposal

Section 14. Transport Information		
DOT Classification	Not a DOT controlled material (United States).	
Identification	Not applicable.	
Special Provisions for Transport	Not applicable.	
DOT (Pictograms)		

Dioctyl Adipate Page Number: 5

### Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations Pennsylvania RTK: Dioctyl Adipate Massachusetts RTK: Dioctyl Adipate

New Jersey: Dioctyl Adipate

TSCA 8(b) inventory: Dioctyl Adipate

TSCA 8(d) H and S data reporting: Dioctyl Adipate

# California Proposition 65 Warnings

Other Regulations

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

**Other Classifications** 

WHMIS (Canada) CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

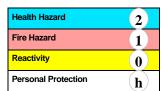
DSCL (EEC) R36/37- Irritating to eyes and

respiratory system.

R40- Possible risks of irreversible effects.

R63- Possible risk of harm to the unborn child.

HMIS (U.S.A.)



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

Health



## WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



**Protective Equipment** 



Gloves.



Lab coat.

Dioctyl Adipate	Page Number:



Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.



Splash goggles.

Section 16. Other Information		
MSDS Code	D3473	
References	Not available.	
Other Special Considerations	Not available.	
Validated by Sonia Owen on 8/11/2006.		Verified by Sonia Owen. Printed 9/12/2006.

#### CALL (310) 516-8000

#### **Notice to Reader**

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.