



Material Safety Data Sheet

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

Section 1. Chemical Product and Company Identification			Page Number: 1	
Common Name/ Trade Name	Dinonyl Phthalate	Catalog Number(s).	D2698	
		CAS#	84-76-4	
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	TI1800000	
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Dinonyl Phthalate	
Commercial Name(s)	Not available.	CI#	Not available.	
Synonym	1,2-Benzenedicarboxylic acid, dinonyl ester; Bisoflex 91; Bisofle DNP; Di-n-nonyl phthalate; Unimoll DN	IN CASE OF	IN CASE OF EMERGENCY	
Chemical Name	Phthalic acid, dinonyl ester	CHEMTREC	(24hr) 800-424-9300	
Chemical Family	Not available.	CALL (310) 5	16-8000	
Chemical Formula	C26-H42-O4			
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 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) Dinonyl Phthalate	84-76-4				100
Toxicological Data Not applicab on Ingredients	le.				

Section 3. Hazards Identification		
Potential Acute Health Effects	Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation.	
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.	

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Section 4. First A	id Measures
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
Serious Skin Contact	Not available.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation	Not available.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Section 5. Fire and E.	Section 5. Fire and Explosion Data		
Flammability of the Product	May be combustible at high temperature.		
Auto-Ignition Temperature	Not available.		
Flash Points	CLOSED CUP: 216°C (420.8°F).		
Flammable Limits	Not available.		
Products of Combustion	These products are carbon oxides (CO, CO2).		
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of open flames and sparks, of heat.		
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	When heated to decomposition it emits acrid smoke and irritating fumes.		
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. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.	

Serious Ingestion

Not available.

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Section 7. Handling and Storage		
Precautions	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/vapor/spray. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.	
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.	

Section 8. Exposure Controls/Personal Protection			
Engineering Controls	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.		
Personal Protection	Safety glasses or Splash Goggles. Synthetic apron or Lab Coat. Gloves (impervious). Because of the very low vapor pressure of this substance, respiratory protection is not normally required during usual handling at ambient temperatures. A respirator may be required if if material is heated or if handling of material generates mist or vapor and if ventilitation is inadequate.		
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.		
Exposure Limits	TWA: 5 (mg/m³) [United Kingdom (UK)]		
	Consult local authorities for acceptable exposure limits.		

Section 9. Physical and Chemical Properties			
Physical state and appearance	Liquid. (Oily liquid.)	Odor	Odorless.
Molecular Weight	418.62 g/mole	Taste	Not available.
pH (1% soln/water)	Not applicable.	Color	Colorless.
Boiling Point	413°C (775.4°F)		
Melting Point	Not available.		
Critical Temperature	Not available.		
Specific Gravity	0.972 (Water = 1)		
Vapor Pressure	<0.1 kPa or 1 mm Hg (@ 20°C) 1 mm Hg @ 205 deg. C.		
Vapor Density	14.44 (Air = 1)		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	The product is more soluble in oil; log(oil/water): >	2.2	
Ionicity (in Water)	Not available.		
Dispersion Properties	Not available.		
Solubility	Insoluble in cold water, hot water.		

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Section 10. S	Stability and Reactivity Data	
Stability	The product is stable.	

Instability Temperature
Conditions of Instability

Excess heat, incompatible materials

Incompatibility with various Reactive with oxidizing agents. substances

Special Remarks on Not available.

Reactivity
Special Remarks on
Corrosivity

Corrosivity

Not available.

Not available.

Polymerization Will not occur.

Section 11. Toxicological Information			
Routes of Entry	Absorbed through skin. Eye contact.		
Toxicity to Animals	Acute oral toxicity (LD50): 21500 mg/kg [Guinea pig] [Rat].		
Chronic Effects on Humans	Not available.		
Other Toxic Effects on Humans	Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.		
Special Remarks on Toxicity to Animals	Lethal Dose Conc/50% Kill: LD50[Rat] - Route: unreported; Dose: 18000 mg/kg (Registry of Toxic Effects of Chemical Substances)		
Special Remarks on Chronic Effects on Humans	Not available.		
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: May cause skin irritation. It can be absorbed through the skin and cause systemic effects. Eyes: May cause eye irritation. Inhalation: May cause respiratory tract irritation.		

Section 12. Ecological Information		
Ecotoxicity	Not available.	
BOD5 and COD	Not available.	
Products of Biodegradation	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.	

Ingestion: Low order of toxicity. May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea. May affect behavior/central nervous system (CNS depression, somnolence, withdrawl), metabolism (weight loss).

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Section 13. Disposal Considerations

Vaste Disposal Waste must be disposed of in accordance with federal, state and local environmental

control regulations.

Section 14. Transport Information

DOT Classification Not a DOT controlled material (United States).

Identification Not applicable.

Special Provisions for

Transport

Not applicable.

DOT (Pictograms)



Section 15. Other Regulatory Information and Pictograms

TSCA 8(b) inventory: Dinonyl Phthalate **Federal and State**

TSCA 8(d) H and S data reporting: Dinonyl Phthalate: Effective date: 10/4/82; Sunset date: 10/4/92 Regulations

California Proposition 65 Warnings

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found.

California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

Other Regulations

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 201-560-0).

Canada: Listed on Canadian Domestic Substance List (DSL). China: Listed on National Inventory.

Japan: Listed on National Inventory (ENCS). Korea: Listed on Natioinal Inventory (KECI).

Australia: Listed on AICS.

Other Classifications

WHMIS (Canada) Not controlled under WHMIS (Canada).

DSCL (EEC) This product is not classified according

to the EU regulations.

HMIS (U.S.A.)

Health Hazard	1
Fire Hazard	1
Reactivity	0
Personal Protection	(C)

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

Health



S24/25- Avoid contact with skin and eyes.

WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



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TDG (Canada) (Pictograms)			
ADR (Europe) (Pictograms)			
Protective Equipment		Gloves (impervious).	
		Lab coat.	
	<u> </u>	Not applicable. Safety glasses.	

Section 16. Other Information			
MSDS Code	D3471		
References	Not available.		
Other Special Considerations	Uses: For making vinyl mixes which have to withstand heat and resist migration and extraction by detergents; plastisols and coating pastes; plasticizer.		
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.