



# **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment
20	Health Hazard     2       Fire Hazard     1	
	Reactivity 0	See Section 15.

Section 1. Chemical Product and Company Identification				Page Number: 1
Common Name/ Trade Name	3,3'-Dimethoxybenzidine		Catalog Number(s).	DI137
			CAS#	119-90-4
Manufacturer	Manufacturer SPECTRUM CHEMICAL MFG, CORP.		RTECS	Not available.
14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA	TSCA 8(b) inventory: 3,3'-Dimethoxybenzidine	
Commercial Name(s)	Not available.		CI#	24110
Synonym	o-Dianisidine			
Chemical Name				<u>EMERGENCY</u> (24hr) 800-424-9300
Chemical Family Not available.		CALL (310) 5	16-8000	
Chemical Formula	C14H16N2O2			
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/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	CEIL (mg/m <sup>3</sup> )	% by Weight
1) {3,3'-}Dimethoxybenzidine		119-90-4				100
Toxicological Data on Ingredients	<b>3,3'-Dimethoxybenzidine</b> : ORAL (LD50): Acute: 1920 mg/kg [Rat].				Ι	
Section 3. Hazards lo	lentification					
Potential Acute Health Effects	Very hazardous in case of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.					
Potential Chronic Health Effects	Very hazardous in case of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (irritant). <b>CARCINOGENIC EFFECTS</b> : Classified 2 (Reasonably anticipated.) by NTP. <b>MUTAGENIC EFFECTS</b> : Not available. <b>TERATOGENIC EFFECTS</b> : Not available. <b>DEVELOPMENTAL TOXICITY</b> : Not available. The substance is toxic to kidneys, liver. Repeated or prolonged exposure to the substance can produce target organs damage.					

## 3,3'-Dimethoxybenzidine

## Section 4. First Aid Measures

Section 4. First Aid I	Neasures			
Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.			
Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skir with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.			
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediat medical attention.			
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.			
Serious Inhalation	Not available.			
Ingestion	Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Looser 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.			
Serious Ingestion	Not available.			
Section 5. Fire and E	xplosion Data			
Flammability of the Product	May be combustible at high temperature.			
Auto-Ignition Temperature	Not available.			
Flash Points	CLOSED CUP: 206°C (402.8°F).			
Flammable Limits	Not available.			
Products of Combustion	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2).			
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	Material in powder form, capable of creating a dust explosion.			
Special Remarks on Explosion Hazards	Not available.			
Section 6. Accidental	Release Measures			
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.			
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.			

## 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 dust. In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes
Storage	Keep container dry. Keep in a cool place. Ground all equipment containing material. Carcinogenic, teratogenic or

Keep container dry. Keep in a cool place. Ground all equipment containing material. Carcinogenic, teratoger mutagenic materials should be stored in a separate locked safety storage cabinet or room.

## Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.		
Personal Protection	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.		
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust 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.		
Exposure Limits	Not available.		

## Section 9. Physical and Chemical Properties

Physical state and appearance	Solid. (Crystals solid.)	Odor	Not available.	
Molecular Weight	244.32 g/mole	Taste	Not available.	
		Color	Colorless.	
pH (1% soln/water)	Not available.			
Boiling Point	Not available.			
Melting Point	137.5°C (279.5°F)			
Critical Temperature	Not available.			
Specific Gravity	Not available.			
Vapor Pressure	Not applicable.			
Vapor Density	8.43 (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, acetone.			
Solubility	Soluble in methanol, diethyl ether, acetone. Very slightly soluble in cold water.			

# Stability The product is stable. Instability Temperature Not available. Conditions of Instability Not available. Incompatibility with various substances Not available.

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Corrosivity	Non-corrosive in presence of glass.	
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	No.	

Section 11. Toxicological Information		
Routes of Entry	Eye contact. Inhalation. Ingestion.	
Toxicity to Animals	Acute oral toxicity (LD50): 1920 mg/kg [Rat].	
Chronic Effects on Humans	<b>CARCINOGENIC EFFECTS</b> : Classified 2 (Reasonably anticipated.) by NTP. The substance is toxic to kidneys, liver.	
Other Toxic Effects on Humans	Very hazardous in case of ingestion, of inhalation. Hazardous in case of skin contact (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.	
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 products of degradation are more toxic.	
Special Remarks on the Products of Biodegradation	Not available.	

# Section 13. Disposal Considerations

Waste Disposal

OOT Classification         Not a DOT controlled material (United States).	
Identification	Not applicable.
Special Provisions for Transport	Not applicable.

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# 3,3'-Dimethoxybenzidine

## DOT (Pictograms)



Section 15. Other Re	egulatory Informa	ion and Pictograms	
Federal and State Regulations	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: 3,3'-Dimethoxybenzidine 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: 3,3'-Dimethoxybenzidine Pennsylvania RTK: 3,3'-Dimethoxybenzidine Massachusetts RTK: 3,3'-Dimethoxybenzidine TSCA 8(b) inventory: 3,3'-Dimethoxybenzidine SARA 313 toxic chemical notification and release reporting: 3,3'-Dimethoxybenzidine CERCLA: Hazardous substances.: 3,3'-Dimethoxybenzidine		
California Proposition 65 Warnings		his product contains the following ingredients h would require a warning under the statute: 3,	
Other Regulations	OSHA: Hazardous b	definition of Hazard Communication Standard (2	29 CFR 1910.1200).
Other Classifications	WHMIS (Canada) DSCL (EEC)	CLASS D-2A: Material causing other toxic effect R38- Irritating to skin. R41- Risk of serious damage to eyes. R45- May cause cancer.	cts (VERY TOXIC).
HMIS (U.S.A.)	Health Hazard         Fire Hazard         Reactivity         Personal Protection	2 National Fire Protection 1 Association (U.S.A.) (E)	Flammability Reactivity Specific hazard
WHMIS (Canada) (Pictograms)			
DSCL (Europe) (Pictograms)	·		
TDG (Canada) (Pictograms)			
ADR (Europe) (Pictograms)			
Protective Equipment	Glove	S.	
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		Lab coat.	
		Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.	
		Splash goggles.	
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Section 16. Other Information			
MSDS Code	D3325		
References	Not available.		

Other Special     Not available.       Considerations	
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.