



Material Safety Data Sheet

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

Section 1. Chemical Product and Company Identification			Page Number: 1	
Common Name/ Trade Name	Ethinyl estradiol		Catalog Number(s).	E1250, ET150
			CAS#	57-63-6
Manufacturer	SPECTRUM CHEMICAL MFG. CORP.		RTECS	RC8925000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA	TSCA 8(b) inventory: Ethinyl estradiol
Commercial Name(s)	Not available.		CI#	Not available.
Synonym	17-Ethynylestradiol		DI CAGE OF	THE CONCY
Chemical Name	Not available.			EMERGENCY 2 (24hr) 800-424-9300
Chemical Family	Not available.		CALL (310) 5	16-8000
Chemical Formula	C20H24O2			
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) Ethinyl estradiol		57-63-6				100
Toxicological Data on Ingredients	Ethinyl estradiol: ORAL (LD50):	Acute: 1200 mg	y/kg [Rat]. 1737 mg/l	kg [Mouse].		

Section 3. Hazards Identification

Potential Acute Health Effects Very hazardous in case of ingestion. Hazardous in case of eye contact (irritant). Slightly hazardous in case of

skin contact (irritant, permeator).

Potential Chronic Health Effects

Very hazardous in case of ingestion.

Hazardous in case of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (irritant, permeator).

CARCINOGENIC EFFECTS: Classified 2 (Reasonably anticipated.) by NTP.

MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: PROVEN

The substance is toxic to lungs, the reproductive system, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.

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Section 4. First A	id Measures
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 skin 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	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. 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. 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.
Serious Ingestion	Not available.

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Section 5. Fire and E.	xplosion Data
Flammability of the Product	May be combustible at high temperature.
Auto-Ignition Temperature	Not available.
Flash Points	Not available.
Flammable Limits	Not available.
Products of Combustion	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. Acc	cidental 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.

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Section 7. Handling	and Storage		
Precautions	residue under a fume hood. Ground all equipm	ent contain	. Empty containers pose a fire risk, evaporate thing material. Do not ingest. Do not breathe dust ngested, seek medical advice immediately and show
Storage	Keep container dry. Keep in a cool place. Ground mutagenic materials should be stored in a separate		ent containing material. Carcinogenic, teratogenic of fety storage cabinet or room.
Section 8. Exposure	Controls/Personal Protection		
Engineering Controls			engineering controls to keep airborne levels below ust, fume or mist, use ventilation to keep exposure to
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 a	nd Chemical Properties		
Physical state and appearance	Solid. (Crystalline solid.)	Odor	Odorless.
Molecular Weight	296.41 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	White.
Boiling Point	Decomposes. (143°C or 289.4°F)		
-	Decomposes. (143°C or 289.4°F) 182°C (359.6°F)		
Melting Point	, ,		
Melting Point Critical Temperature	182°C (359.6°F)		
Melting Point Critical Temperature Specific Gravity	182°C (359.6°F) Not available.		
Melting Point Critical Temperature Specific Gravity Vapor Pressure	182°C (359.6°F) Not available. Not available.		
Melting Point Critical Temperature Specific Gravity Vapor Pressure Vapor Density	182°C (359.6°F) Not available. Not applicable.		
Melting Point Critical Temperature Specific Gravity Vapor Pressure Vapor Density Volatility	182°C (359.6°F) Not available. Not applicable. Not available.		
Melting Point Critical Temperature Specific Gravity Vapor Pressure Vapor Density Volatility Odor Threshold	182°C (359.6°F) Not available. Not applicable. Not available. Not available. Not available.		
Melting Point Critical Temperature Specific Gravity Vapor Pressure Vapor Density Volatility Odor Threshold Water/Oil Dist. Coeff.	182°C (359.6°F) Not available. Not applicable. Not available. Not available. Not available. Not available.		
Boiling Point Melting Point Critical Temperature Specific Gravity Vapor Pressure Vapor Density Volatility Odor Threshold Water/Oil Dist. Coeff. Ionicity (in Water) Dispersion Properties	182°C (359.6°F) Not available. Not applicable. Not available. Not available. Not available. Not available. Not available. Not available.	etone.	

Section 10. Stability	Section 10. Stability and Reactivity Data	
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. Ingestion.	
Toxicity to Animals	Acute oral toxicity (LD50): 1200 mg/kg [Rat].	
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Classified 2 (Reasonably anticipated.) by NTP. DEVELOPMENTAL TOXICITY: PROVEN The substance is toxic to lungs, the reproductive system, mucous membranes.	
Other Toxic Effects on Humans	Very hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant, permeator).	
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

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

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DOT (Pictograms)



Section 15. Other Regulatory Information 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: Ethinyl estradiol

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: Ethinyl estradiol

Pennsylvania RTK: Ethinyl estradiol Massachusetts RTK: Ethinyl estradiol TSCA 8(b) inventory: Ethinyl estradiol

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: Ethinyl estradiol

Warnings

Other Regulations

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

WHMIS (Canada)

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

DSCL (EEC) R22- Harmful if swallowed.

R36- Irritating to eyes. R45- May cause cancer.

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.

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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.

Section 16. Other Information		
MSDS Code	E3219	
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.