

Comprete Mas	November: Ty	ZO V. VO ANI	nohellane Si	(ite 220, San i	Ramon, CA	94583 Fa	((510) 3	327-734:	7 Voice (510) 327	7-0200 3-0330
Cilnical R&D : Sales & Marke	3158 Des Pis ting: 1719 Ro	ilnes / oute 10	Avenue, Suite), Suite 310 Pa	10-14, Des Pia Iraippany, NJ	1108, IL 60 07054 Fax	016 Fax: : (201) 35	(047) 6 9-0313	Voice:	(201) 359-0600	J-4540
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COMPANY:	ALAME.	DA	QOUNTY	HEALTH	DEPART	MENT				
FAX #:	(5/0)	33	7- 9335							
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COMMENTS:

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08-22-97 1:29:59 PM FROM: SPECTRUM QUALITY

TO: 201





Material Safety Data Sheet

	NINDA	HM(S	Personal Protective Equipment	
ł	NFPA	7000 MINING 3 700		
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l	30	Precediality 2000	See Section 15.	
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	al Product and Company Jaentification	Code	6985M
Commun Name/ Trade Name	Mitomycin c	CAS#	50-07-7
Manulacturer	SPECTRUM CHEMICAL MFG, CORP. 14422 SOUTH SAN PEDRO STREET GARDENA, CALIFORNIA 90248	RIECS TSCA	CN0700000 On the TSCA list.
Commercial Name(x)	Not available.	CI#	Not available.
Synonym	Not available.	in case Q	F EMERGENCY
Chemical Name	Not available.		C (24hr) 800-424-9300
Chemical Family	Not available.	Emergency	phone: (310)516-8000
Chemical Formula	C15H1BN4C5		
Supplier	SPECTRUM QUALITY PRODUCTS, INC. 14422 SOUTH SAN PEDRO STREET GARDENA, CA 90248		

	Digital Microsoft (1997) (1997	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Exposure Limits		
Name	ÇAS#	TWA (mg/m³)	STEL (mg/m²)	CEIL (mg/m³)	% by Weight
Mitomycin c	50-07-7				100

Section 3. Hazards / Potential Acute Health Effects	Very dengerous in case of eye contact (Irritent), of ingestion. Slightly dengerous to dangerous in case of skin contact (Irritant, permeator), of inhalation. This product is an eye irritant. Severe over-exposure can result in death. Can be fatal if inhaled or ingested. This product may irritate eyes and skin upon contact. Inflammation of the eye is characterized by redness, watering, and itching.
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Classified 1 by IARC, + by DSHA/NIOSH. MUTAGENIC EFFECTS; Not available. TERATOGENIC EFFECTS: Not evallable. The substance is toxic to blood, kidneys. Toxicity of the product to the reproductive system: Not available. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

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	Page Norman.
Mitomycin =	
Section 4, Firet Aid Me	aspires
-,	minutes, keeping eyelids open. COLD water may be used.
Skin Confact	if the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as it the chemical got onto the clothed portion of the body. Place the victim under a deluge shower. If the chemical possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and with running water and non-abrasive soap. Seek medical attention. Wash contaminated clothing before reusing.
Serjous Skin Contact	medical attention. Wash contaminated closing statement of the statement of
Inhalation	Allow the victim to rest in a well ventilated area. Sack immediate madical attention.
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or walstband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. WARNING: It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.
Ingestion	Remove dentures if any. Watch for an obstruction in the victim's mouth. Remove if possible what is described the obstruction but do not force fingers or a hard object between the victim's teeth. Have conscious person the obstruction but do not force fingers or a hard object between the victim's teeth. Have conscious person the obstruction but do not force fingers or a hard object between the victim's mouth. Have conscious person the obstruction but do not force fingers or a hard object between the victim's mouth. Remove if possible what is described and the victim's mouth. Remove if possible what is described and the victim's mouth. Remove if possible what is described and the victim's mouth. Remove if possible what is described and the victim's mouth. Remove if possible what is described and the victim's teeth. Have conscious person the obstruction but do not force fingers or a hard object between the victim's teeth. Have conscious person the obstruction but do not force fingers or a hard object between the victim's teeth. Have conscious person the victim's teeth, and the victim's teeth. Have conscious person the victim's teeth, and the victim's teeth.
Serious Ingestion	Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the 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. Remove dentures if any toxic material was ingested; the absence of such signs, however, is not conclusive. Remove dentures if any toxic material was inserted between the victim's teeth of the construction but do with the soft pad can be inserted between the victim's teeth. It will protect the tongue from being bitten. A badly bleeding tongue immensely complicates victim's teeth, it will protect the tongue from being bitten. A badly bleeding tongue immensely complicates the patient's problems. Have conscious person drink several glasses of water or milk. INDUCE VOMITING the patient's problems. Have conscious person drink several glasses of water or milk. INDUCE VOMITING the patient's problems. Have conscious person drink several glasses of water or milk. INDUCE VOMITING the patient's problems. Have conscious person drink several glasses of water or milk. INDUCE VOMITING the patient's problems. Have conscious person drink several glasses of water or milk. INDUCE VOMITING the patient's problems. Have conscious person drink several glasses of water or milk. INDUCE VOMITING the patient's problems. Have conscious person drink several glasses of water or milk. INDUCE VOMITING the patient's problems. Have conscious person drink several glasses of water or milk. INDUCE VOMITING the patient's problems. Have conscious person drink several glasses of water or milk. INDUCE VOMITING the patient's problems. Have conscious person drink several glasses of water or milk. INDUCE VOMITING the patient's problems. In the victim to prevent the victim to prevent him (her) from striking fixed heavy objects. If the convulsions case (here) are problems and the patient in the victim to prevent him (her) from striking in the mouth will drain. Seek immed
Section 5 Elevant E	xplosion Pala
Flammability of the Product	Combustible.
Auto-Ignition Temperature	Not available.
Flash Points	Not available.
Finamable Limits	Not available.
Products of Combustion	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2).
Fire Hazards in Presence of Various Substances	various materials.
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. No specific information is available in our database regarding the product's risks of explosion in the presence of various materials.
Fire Fighting Media	SMALL FIRE: Use DRY chemicals, CO2, water spray or foam. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.

Special Remarks on Fire Hazurds

Special Remarks on Explosion Hazards No additional remark.

No additional remark.

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A 6 to			Page Number: 3
Mitomycin c		AAR CONTRACTOR	weste disposal container.
section 6. Actidental R	Verease in easures to put the spilled solid		weste disposal container.
muli Spill	Use appropriate tools to put the spilled solid	III a conventent	
	Poisonous solid. Stop leak if without risk. DO NOT get wate spray to reduce vapors. Prevent entry into all sources of ignition. Call for assistance or		ner. DO NOT touch spilled material. Use water ents or confined areas; dike if needed. Eliminate
Section 7. Handling at	d Stotage	9 20 0 000 ppp - 70 00 00 00 pp 20 0 000 ppp 70 00 00 00 pp 20 0 000 ppp 70 00 00 00 pp	A STATE OF THE RESIDENCE OF THE RESIDENC
'гесрийо м s	keep locked up. Keep away from heat. Kerisk, evaporate the residue under a tume ho DO NOT breathe dust. In case of insuffici	eep away non : ood, Ground all ent ventilation, v	equipment containing material. DO NOT ingest, wear suitable respiratory equipment. If ingested, the label. Avoid contact with skin and eyes.
itorage	Keep container dry. Keep in a cool place. closed. Keep in a cool, well-ventilated pseparate locked safety storage cabinet or ro	Ground all equi blace, Highly fox pom.	pment containing materials. Accept the stored in a
NATURAL PROPERTY OF THE PROPER		E BLANKE STATE	Towns to the state of the state
Section 4. Exposure C Engineering Controls	Use process enclosures, local exhaust ve below recommended exposure limits. If us	ntitation, or oth er operations go re exposure limb	er engencering controls to keep alround levels enerate dust, fume or mist, use ventilation to keep t.
Personal Protection	Splash goggles. Lab coat. Dust respir	ator. Be sure	to use a MSHA/NIOSH approved respirator of tor when ventilation is inadequate.
Personal Protection in Case of a Large Spill			 A self contained breathing apparatus should be sective clothing might not be sufficient; consult a
Exposure Limits	Not available.		
	nd chamilial Properties		
Physical state and	nd Chemical Properties Solid. (Powdered solid.)	Oder	Not availeble.
Physical state and uppearance		2.11.22.22.22.22.22.22.22.22.22.22.22.22	Not available.
Physical state and uppearance Malecular Weight	Solid. (Powdered solid.) 334.33	Oder	Not availeble.
Physical state and uppearance Malecular Weight pH (1% soln/water)	Solid. (Powderød solid.)	Odor Taste	Not available.
Physical state and uppearance Molecular Weight pH (1% soln/water) Boiling Point	Solid. (Powdered solid.) 334.33 Not available. Not available.	Odor Taste	Not available.
Physical state and uppearance Malecular Weight pH (1% soln/water) Boiling Point Melting Point	Solid. (Powdered solid.) 334.33 Not available. Not available. Decomposes.	Odor Taste	Not available.
Physical state and uppearance Malecular Weight pH (1% soln/water) Boiling Point Melting Point Critical Temperature	Solid. (Powdered solid.) 334.33 Not available. Not available. Decomposes. Not available.	Odor Taste	Not available.
Physical state and appearance Malecular Weight pff (1% soln/wafer) Boiling Point Melting Point Critical Temperature Specific Gravity	Solid. (Powdered solid.) 334.33 Not available. Not available. Decomposes. Not available. Not available.	Odor Taste	Not available.
Physical state and uppearance Malecular Weight pH (1% soln/water) Boiling Point Melting Point Critical Temperature Specific Gravity Vapor Pressure	Solid. (Powdered solid.) 334.33 Not available. Not available. Decomposes. Not available. Not available. Not available. Not available.	Odor Taste	Not available.
Physical state and appearance Malecular Weight pH (1% soln/water) Boiling Point Melting Point Critical Temperature Specific Gravity Vapor Pressure	Solid. (Powdered solid.) 334.33 Not available. Not available. Decomposes. Not available. Not available. Not available. Not available. Not available. Not available.	Odor Taste	Not available.
Physical state and uppearance Malecular Weight pH (1% soln/water) Boiling Point Melting Point Critical Temperature Specific Gravity Vapor Pressure Vapor Density Valatility	Solid. (Powdered solid.) 334.33 Not available. Not available. Decomposes. Not available.	Odor Taste	Not available.
Physical state and appearance Malecular Weight pH (1% soln/water) Boiling Point Melting Point Critical Temperature Specific Gravity Vapor Pressure Vapor Density Valatility Odor Threshold	Solid. (Powdered solid.) 334.33 Not available. Not available. Decomposes. Not available.	Odor Taste	Not available.
Physical state and appearance Malecular Weight pff (1% soln/wafer) Boiling Point Melting Point Critical Temperature Specific Gravity Vapor Pressure Vapor Density Valatility Odor Threshold Water/Oil Dist. Coeff.	Solid. (Powdered solid.) 334.33 Not available. Not available. Decomposes. Not available. Not available.	Odor Taste	Not available.
Physical state and appearance Malecular Weight pH (1% soln/water) Boiling Point Melting Point Critical Temperature Specific Gravity Vapor Pressure Vapor Density Valatility Odor Threshold	Solid. (Powdered solid.) 334.33 Not available. Not available. Decomposes. Not available.	Odor Taste	Not available.

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Mitomycin c	Page Numper: 4
Secupa 10 Slabilitys	ду Reactivity Сене
Siubility	The product is stable.
Instability Temperature	Not available
Conditions of Instability	No additional remark.
Incompatibility with various substances	No specific information is available in our database regarding the reactivity of this material in presence of various other materials.
Corresivity	Non-corrosive in presence of glass.
Special Remarks on Reactivity	No additional remark.
Special Romarks on Corresivity	No additional remark.
Polymerization	No.

Section 11. Toxicalog	ical information
Routes of Entry	Ingestion, Skin contact, inhalation.
Toxicity to Animals	Acute oral toxicity (LD50): 23 mg/kg (Mouse).
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Classified 1 by IARC, + by OSHA/NIOSH. The substance is toxic to blood, kidneys. Toxicity of the product to the reproductive system: Not available.
Other Toxic Effects on Humans	Very dangerous in case of eye contact (Inftant), of ingestion. Slightly dangerous to dangerous in case of skin contact (irritant, permeator), of inhalation.
Special Remarks on Toxicity to Animals	No additional remark.
Special Remarks on Chronic Effects on Humans	Causes sperm abnormalities in animal.
Special Remarks on other Toxic Effects on Humans	No additional remark.

Section (7: Ecologic	n information
Ecotoxicity	Not available.
BODS and COD	Not available.
Products of Riodegradation	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2).
Toxicity of the Products of Biodegradation	The products of degradation are more toxic.
Special Remarks on the Products of Biodegradation	No additional remark.

Special Remarks on the	NO additional terrain.
Products of Biodegradation	
	Considerations
Section IS. Disposar	in the state of th
Waste Disposal	Recycle to process, if possible. Consult your local or regional authorities.
Mark Dishara	
Carried to Transport	Imperiation

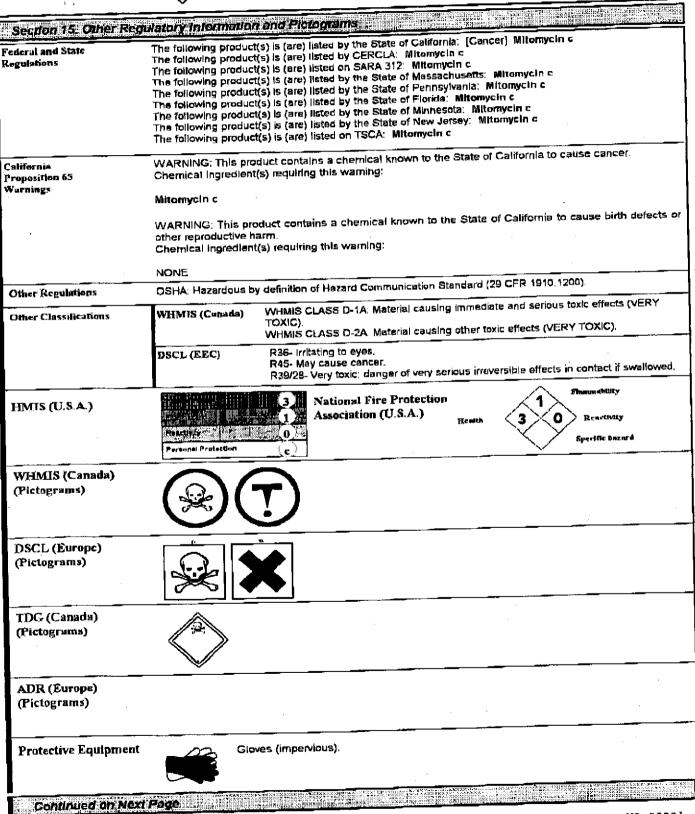
DOT Classification	DOT CLASS 5.1: Poisonous material.	
DOI Chasmerdon		
Identification		
Special Provisions for	No additional remark.	
Transport		

Continued on New Page

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Page Number: 5 Mitomycin C DOT (Pictograms)



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Page Number: 6 Mitomycin c



Lab coat.



Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.



Splash goggles.

Section 16. Oth	er kilomation		Nine 22
Catolog Number(5)	M1296		<u></u>
References	Not available.		
Other Special Considerations	No additional remark.		
Validated by E. Brull	on 12/17/96.	Verified by E. Brull. Printed 12/19/96.	
	TAYETE SIMA		

Emergency phone: (310)516-80(4)

All chemicals may pose unknown bacords and should be used with contine. This Material Safety Data Sheet (MSDS) applies only to the material as pockaged. If this product is All chemicals may pose unknown bacords and should be the user's responsibility to develop proper combined with other materials, deteriorates, or heromete contaminated, it may pase hapards and membered in this MSDS. It shall be user's responsibility to develop proper combined with other materials, deteriorates, or herometes, and personal protection based on the actual conditions of not. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, and actually fine the completeness or accuracy of the information contained herein.

SUPERGEN

CHAIR OF CUSTODY REPORT

[TX/RX NO 8901]

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CHAIR OF CUSTODY REPORT

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