

Material Safety Data Sheet

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
	Toxic compound, do not ingest or inhale. Avoid all contact with this material. CARCINOGEN. May cause cancer. Possible risk of harm to the unborn child	

Section I. C	Chemical Product and Company I	Identification	
Chemical Name	Norethisterone		
Catalog Number	N0449	Supplier	TCI America 9211 N. Harborgate St.
Synonym	Norethindrone		Portland OR 1-800-423-8616
Chemical Formula	$C_{20}H_{26}O_2$	· · · · · · · · · · · · · · · · · · ·	
CAS Number	68-22-4	In case of Emergency	Chemtrec® (800) 424-9300 (U.S.)
		Call	(703) 527-3887 (International)

Section II. Composition and Information on Ingredients				
Chemical Name	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
Norethisterone	68-22-4	Not available.	This chemical is classified as a possible carcinogen. There is no acceptable exposure limit for a carcinogen.	, ,

Norethiste	erone	68-22-4	Not available.	possible carcinogen. There is no acceptable exposure limit for a carcinogen.	Mouse LD ₅₀ (oral) 6000mg/kg
Section III.	Hazards Identi	fication			
Acute Health Effects				rith this material. Overexposure mar proper protective equipment wh	nay result in serious illness or death. en handling this compound.
Chronic Health Effects	CARCINOGENIC E MUTAGENIC EFFE TERATOGENIC EF Mouse TDLo (imple Toxic effects: Tumorigenic - Equi Tumorigenic - Incre Mouse TDLo (subc Toxic effects: Tumorigenic - Equi Tumorigenic effects DEVELOPMENTAI Man TDLo (oral) 71 Toxic effects - S Paternal effects - S	FCTS: Not availal FECTS: Tumorigant) 166mg/kg/77 w vocal tumorigenic assed incidence of utaneous) 163 mg/vocal tumorigenic as - Ovarian tumors. TOXICITY: Reproduced to a pg/kg, male 25 permatogenesis.	ole. genic Effects: weeks, continuous agent by RTECS tumors in suscept kg/78 weeks, cor agent by RTECS ductive Effects.	criteria. ible strains. tinuous. criteria.	

Tumorigenic effects - Ovarian tumors.

DEVELOPMENTAL TOXICITY: Reproductive Effects.

Man TDLo (oral) 7143 µg/kg, male 25 days prior to mating.

Toxic effects:
Paternal effects - Spermatogenesis.
Paternal effects - Impotence.
Paternal Effects - Other effects on male.

Woman TDLo (oral) 4mg/kg, female 20 days prior to mating.

Toxic effects:
Maternal Effects - Uterus, cervix, vagina.

Effects on Fertility - Other measures of fertility.

Rat TDLo (oral) 28 mg/kg, male 14 days prior to mating.

Toxic effects:
Paternal effects - Prostate, seminal vessicle, Cowper's gland, accessory glands.

Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

Section IV.	First Aid 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.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation	If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do not improve.
Ingestion	INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. 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. SEEK IMMEDIATE MEDICAL ATTENTION in case of ingestion of a radioactive material.

Fire and Explosion Data Flammability May be contacted a high temperature. Auto-Ignition Nort available. Flash Points Nort available. Planmable Limits Nort available. Flash Points Nort available. Planmable Limits Nort available. Fire Hazards Nort available. Planmable Limits Nort available. Planmable Limits Nort available. Fire Hazards Nort available. Planmable Limits Nort available. Planmable Limits Nort available. Planmable Limits Nort available. Planmable Limits Planmable Li	N0449		Norethisterone	Page :
Flash Potics Not available These products are tools cathon oxides (CO, COg).	Section V.	Fire and Explosion Data		
These products are toxic carbon coides (CQ, CQ). Fire Hazards Fire Hazards Explosion Hazards Fisike of explosion of the product in presence of mechanical impact: Not available. Biske of explosion of the product in presence of static discharge. Not available. Biske of explosion of the product in presence of static discharge. Not available. Biske of explosion of the product in presence of static discharge. Not available. Life Fifting Mcdia and Instructions Section VI. Accidental Release Measures Toxor material. Corrosportion material will we cause cancer. Possible fisk of harm to the unborn drill discharge instructions. Section VII. Handling and Storage TOXIC, CARCINIOSEN, MAY CAUSE CANCER. POSSIBLE RISK OF HARM TO THE UNBORN CHILD. Keep away from inclination of the section of apposal. Information Section VIII. Explosure Controls. Faginacring Costrols. Section VIII. Personal Protection Department of the label. Treat symptomically and supportively. John of the section VIII. Personal Protection Department of the label. Treat symptomically and supportively. John of the section VIII. Personal Protection Spines paggies, to be called protection or mice, or other explosion, but some recommendation of the protection o	Flammability	May be combustible at high temperature.	Auto-Ignition	Not available.
Explosion Hazards Explosion Hazards Fire Fighting Media and Instructions Section VI. Spill Champe Instructions Section VI. Accidental Release Measures Spill Champe Instructions Section VII. Accidental Release Measures Tools material. Aby cause cancer. Possible risk or harm to the unborn child. Use a short to put the product in presence of static discharge. Not available. Section VII. Accidental Release Measures Spill Champe Instructions Section VII. Handling and Storage Information Consult without put the material and according release the fire depring operations. Section VIII. Handling and Storage Information Exposure Controls Exposure Controls Exposure Controls Exposure Controls This chemical is classified as a possible carcinogen. There is no acceptable exposure limits. This chemical is classified as a possible carcinogen. There is no acceptable exposure limit for a disput. DO NOT reposat. In or to treather dust, if any one of peace according agents. Exposure Controls Exposure Controls Exposure Controls Specific Cravity This chemical is classified as a possible carcinogen. There is no acceptable exposure limit to a carcinogen. Personal Protection Exposure Controls Specific Cravity Not available. Not	Flash Points	Not available.	Flammable Limits	Not available.
Explesion Hazards Files of explosion of the product in presence of mechanical inspect. Not available. Sind Life File Use Service area, log of foar. DO NOT use water jet. Consult with local file authorities before attempting grap scale file frighting operations. Section VI. Accidental Release Measures Spill Cleanup Instructions Tools masterial. Carcinogene masterial. May cause cancer. Possible risk of harm to the unborn child. Handling and Storage Information TOXIC. CAPCINICOSEN. MAY CAUSE CANCER. POSSIBLE RISK OF HARM TO THE UNBORN CHILD. Keep away from incompatible compounds such as ordinarie agents. Mechanical exhaust required. When not in use, giptily seal the container and store in a day, cool place. Avoid excessive heat and right. DO NOT ingest box of branches duel. Hingeleds, seek medical advice immediately and show the Always store away from incompatible compounds such as ordinary agents. Section VIII. Exposure Controls Engineering Countrols Engineering Countrols Engineering Countrols Exposure Limits The presental Protection Spilath goggles. Lab coat. Dust respirator. Boots. Gloves. Suggested protective oching might be onto a fight or production to be exposure limits. It user operations generate dust, turne or mist, use verification to keep apicture levels below recommended exposure limits. It user operations generate dust, turne or mist, use verification to keep exposure to authority or controls operated between the exposure limits. The user operations generate dust, turne or mist, use verification to keep apicture or authority and other mist. It user operations generate dust, turne or mist, use verification to keep authority or appropriate or appro	Combustion Products	These products are toxic carbon oxides (CO	, CO ₂).	
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Spill Cleanup Limits Toke materials Cardinogenic materials. May cause cancer. Prossible risk of harm to the unborn child Line and both of part the material risk a convenient waste disposal container. Consult federal, state, and/or local authorities for session of disposal. Section VII. Handling and Storage Information If TOMC. CARDINOGEN MAY CAUSE CANCER. POSSIBLE RISK OF HARM TO THE UNBORN CHILD. Keep away from heart. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place. Avoid container or the label. Treat symptomatically and supportively. Always better away from tomorphatible compounds such as oxidizing agents. Section VIII. Exposure Controls/Personal Protection Engineering Controls Engineering Controls Personal Protection Personal Protection Personal Protection Spale page limits. If user operations generated dust, furner or mist, use ventilation to keep exposure to airborne contaminant below the exposure limits. If user operations generated dust, furner or mist, use ventilation to keep exposure to airborne contaminant below the exposure limits. If user operations generated dust, furner or mist, use ventilation to keep exposure to airborne contaminant below the exposure limits. If user operations generated dust, furner or mist, use ventilation to keep exposure to airborne contaminant below the exposure limits. If user operations generated dust, furner or mist, use ventilation to keep exposure to airborne contaminant below the exposure limits. If user operations generated dust, furner or mist, use ventilation to keep exposure to airborne contaminant below the exposure limits. The charge of the protection of the pro		LARGE FIRE: Use water spray, fog or foam		perations.
Use a shove to put the material into a convenient waste disposal container. Consult federal, state, and/or local authorities to assistance on disposal container. A consult federal, state, and/or local authorities to assistance on disposal container. A consult federal, state, and/or local authorities for state of the container and storage in CNIC. CARCINOSEN. MAY CAUSE CANCER. POSSIBLE RISK OF HARM TO THE UNBORN CHILD. Keep away from Land Chanchia chance with Mechanical vehaust required. When not in use, lightly seal the container and store in a dry, cool place. Avoid excessive heal and light. DO NOT ingest. Do not breather dust. If ingested, seek medical advice inmediately and show the Always store away from incompatible compounds such as outditing agents. Section VIII. Exposure Controls/Personal Protection Engineering Controls Personal Protection Substituting Possible Controls of the processes enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below moormends to be with exposure limit. If use processes enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below moormends to be the particular of the processes on color of the processes of the processes of the processes on color of the processes of the	Section VI.	Accidental Release Measures	<u> </u>	
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heat. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and eight. DO NOT ingest. On not breath edust. If ingested, seek medical advice immediately and show the container or the label. Treat symptomatically and supportively. Always store way from incompable to employments duch so conditioning agents. Section VIII. Exposure Controls/Personal Protection Engineering Controls Engineering Controls Personal Protection Engineering Controls Personal Protection Personal Protection Spales opagies. Lab coat. Dust respirator. Boots. Gloves. Suggested protective clothing might not be sufficient; consult specialist BEFORE handling this product. Be sure to use a MSHANIOSH approved respirator or equivalent. Exposure Limits This chemical is classified as a possible carcinogen. There is no acceptable exposure limit for a carcinogen. Section IX. Physical and Chemical Properties Physical state © 20°C Specific Gravity Not available. Molecular Weight 298.43 Partition Coefficient Not available. Melting Point Not available. Vapor Pressure Not applicable. Not available. Vapor Pressure Not available. Valor Pressure Not available. Viscosity Not available. Volatility Not available. Viscosity This material is stable if stored under proper conditions. (See Section VII for instructions) Avoid excessive heat and light. Reactive Index Not available. Reactive with strong oxidizing agents.	Section VII.	Handling and Storage		
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Personal Protection Splash goggles. Lab coat. Dust respirator. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Exposure Limits This chemical is classified as a possible carcinogen. There is no acceptable exposure limit for a carcinogen. Section IX. Physical and Chemical Properties Physical state @ 20°C Splid. (White powder.) Specific Gravity Molecular Weight Boiling Point Melting Point Refractive Index Critical Temperature Viscosity Not available. Not available. Volatility Not available. Volatility Not available. Volatility Not available. Not available. Odor Odorless. Slightly bilter. Section X. Stability and Reactivity Data This material is stable if stored under proper conditions. (See Section VII for instructions) Avoid excessive heat and light. Refracts Number Routes of Exposure Routes of Exposure Eye Contact. Ingestion. inhalation. Skin contact. Mouse LDss (oral) 6000mg/kg	Engineering Controls	exposure limits. If user operations generate		
Physical state @ 20°C Solid. (White powder.) Solubility Practically insoluble in water. Sparingly soluble in alcohol. Soluble in chloroform, dioxane. Splightly soluble in ether.	Personal Protection	Splash goggles. Lab coat. Dust respirator.		
Physical state @ 20°C Specific Gravity Not available. Specific Gravity Molecular Weight Boiling Point Mot available. Molething Point Refractive Index Not available. Vapor Pressure Not available. Not available. Vapor Density Not available. Not available. Vapor Density Not available. Vapor Density Not available. Vapor Density Not available. Critical Temperature Viscosity Not available. Not available. Vapor Density Not available. Volatility Not available. Viscosity Not available. Viscosity Not available. Viscosity Not available. Stability and Reactivity Data Stability This material is stable if stored under proper conditions. (See Section VII for instructions) Avoid excessive heat and light. Reactive with strong oxidizing agents. Section XI. Toxicological Information RTECS Number Routes of Exposure Eye Contact. Ingestion. inhalation. Skin contact. Mouse LD ₂₆ (oral) 6000mg/kg	Exposure Limits	This chemical is classified as a possible card	cinogen. There is no acceptable	e exposure limit for a carcinogen.
Specific Gravity Not available. Sparingly soluble in alcohol. Soluble in chloroform, dioxane. Slightly soluble in ether. Molecular Weight 298.43 Partition Coefficient Not available. Vapor Pressure Not available. Not available. Volatility Not available. Critical Temperature Not available. Not available. Taste Slightly bitter. Section X. Stability and Reactivity Data Stability This material is stable if stored under proper conditions. (See Section VII for instructions) Avoid excessive heat and light. Incompatibilities Reactive with strong oxidizing agents. Section XI. Toxicological Information RTECS Number RC8975000 Routes of Exposure Eye Contact. Ingestion. inhalation. Skin contact. Mouse LD ₅₀ (oral) 6000mg/kg	Section IX.	Physical and Chemical Prope	erties	
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Refractive Index Critical Temperature Viscosity Not available. Not available. Odor Odor Odorless. Stability and Reactivity Data Stability This material is stable if stored under proper conditions. (See Section VII for instructions) Avoid excessive heat and light. Incompatibilities Reactive with strong oxidizing agents. Section XI. Toxicological Information RTECS Number RC8975000 Eye Contact. Ingestion. inhalation. Skin contact. Mouse LD ₂₀ (oral) 6000mg/kg	Boiling Point	Not available.	Vapor Pressure	Not applicable.
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Section X. Stability and Reactivity Data Stability Conditions of Instability Incompatibilities Reactive with strong oxidizing agents. Section XI. Toxicological Information RTECS Number Routes of Exposure Toxicity Data Mouse LD ₅₀ (oral) 6000mg/kg	Critical Temperature	Not available.	Odor	Odorless.
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Toxicity Data Mouse LD ₅₀ (oral) 6000mg/kg	RTECS Number	•		
	Routes of Exposure	Eye Contact. Ingestion. inhalation. Skin co	ntact.	
	Toxicity Data	Mouse LD ₅₀ (oral) 6000mg/kg		

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Chronic Toxic Effects	CARCINOGENIC EFFECTS: Not available.	
	MUTAGENIC EFFECTS: Not available.	
	TERATOGENIC EFFECTS: Tumorigenic Effects:	
	Mouse TDLo (implant) 166mg/kg/77 weeks, continuous.	
	Toxic effects:	
	Tumorigenic - Equivocal tumorigenic agent by RTECS criteria.	
	Tumorigenic - Increased incidence of tumors in susceptible strains.	
	Mouse TDLo (subcutaneous) 163 mg/kg/78 weeks, continuous.	
	Toxic effects:	
	Tumorigenic - Equivocal tumorigenic agent by RTECS criteria.	
	Tumorigenic effects - Ovarian tumors.	
	DEVELOPMENTAL TOXICITY: Reproductive Effects.	
	Man TDLo (oral) 7143 µg/kg, male 25 days prior to mating.	
	Toxic effects:	
	Paternal effects - Spermatogenesis.	
	Paternal effects - Impotence.	
	Paternal Effects - Other effects on male.	
	Woman TDLo (oral) 4mg/kg, female 20 days prior to mating.	
	Toxic effects:	
	Maternal Effects - Uterus, cervix, vagina.	
	Effects on Fertility - Other measures of fertility.	
	Rat TDLo (oral) 28 mg/kg, male 14 days prior to mating.	
	Toxic effects:	
	Paternal effects - Prostate, seminal vessicle, Cowper's gland, accessory glands.	
	Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.	
Acute Toxic Effects	Toxic if ingested or inhaled. Avoid prolonged contact with this material. Overexposure may result in serious ill Follow safe industrial hygiene practices and always wear proper protective equipment when handling this comp	

Section XII.	Ecological Information	
Ecotoxicity	Not available.	
Environmental Fate	Not available.	

Section XIII. Disposal Considerations

Waste Disposal

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissove or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and locl regulations when disposing of the substance.

Section XIV.	Transport Information
DOT Classification	Not a DOT controlled material (United States).
PIN Number	Not available.
Proper Shipping Name	Not available.
Packing Group (PG)	Not available.
DOT Pictograms	

Section XV. Of	ther Regulatory Information and Pictograms
TSCA Chemical Inventory (EPA)	This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list: (i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec. (ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on an MSDS sheet.
WHMIS Classification (Canada)	CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).
EINECS Number (EEC)	200-681-6
EEC Risk Statements	R24/25- Toxic in contact with skin and if swallowed. R45- May cause cancer. R46- May cause heritable genetic damage. R47- May cause birth defects.
Japanese Regulatory Data	Not available.

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Section XVI. Other Information

Version 1.0 Validated on 6/8/2001. Printed 3/28/2011.

Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

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