



Material Safety Data Sheet

HAZARD WARNINGS		RISI		PROTECTIVE CLOTHING		
	Flammable material; avoid heat and sources of ignition. Toxic compound, do not ingest or inhale. Avoid all cont this material. Air and light sensitive material. Hygroscopic keep container tightly sealed. This compound is a possible sensitizer. Store under inert gas. POSSIBLE CARCINOGEN. MINIMIZE EXPOSURE.					
Section I. Che	Section I. Chemical Product and Company Identification					
Chemical Name	Nickelocene					
Catalog Number	D1574 Supplier TCI America 9211 N. Harborgate St.					
Synonym		Nickelocene (CA INDEX NAME); Bis(cyclopentadienyl)nickel				Portland OR 1-800-423-8616
Chemical Formula	C ₁₀ H ₁₀ Ni				In any of	
CAS Number	1271-28-9				In case of Emergency Call	Chemtrec® (800) 424-9300 (U.S.) (703) 527-3887 (International)
Section II. Co	mposition a	nd Informa	tion on In	aradian		
Chemical Nam		CAS Number	Percent (%)	í	TLV/PEL	Toxicology Data
Nickelocene		1271-28-9	Min. 98.0 (T)	This chemical is classified as a possible carcinogen. There is no acceptable exposure limit for a carcinogen.		Mouse LD ₅₀ (oral) 600 mg/kg
Section III. Ha	zards Identi	fication				
Acute Health Effects	Skin contact may protection. A OSH	result in sensitizat A/MSHA approved	ion. Always cov dust and vapor re	er all expose espirator is re	ed skin with an in quired when work	e may result in serious illness or death. npermeable layer and use proper eye ing with this material. when handling this compound.
Chronic Health Effects CARCINOGENIC EFFECTS : Not available. MUTAGENIC EFFECTS : Not available. TERATOGENIC EFFECTS : Tumorigenic effects. Rat TD Intramuscular 600 mg/kg for 47 weeks intermittent TOXIC EFFECTS: Tumorigenic - Neoplastic by RTECS criteria Blood - Lymphomas including Hodgkin's disease Tumorigenic - Tumors at site of application Rat TD Intramuscular 50 mg/kg TOXIC EFFECTS: Tumorigenic - Gauivocal tumorigenic agent by RTECS criteria Musculoskeletal - Tumors Skin and Appendages - Tumors Rat TD Intramuscular 50 mg/kg for 46 weeks intermittent TOXIC EFFECTS: Tumorigenic - Neoplastic by RTECS criteria Musculoskeletal - Tumors Rat TD Intramuscular 50 mg/kg for 46 weeks intermittent TOXIC EFFECTS: Tumorigenic - Neoplastic by RTECS criteria Musculoskeletal - Tumors Rat TD Intramuscular 50 mg/kg for 46 weeks intermittent TOXIC EFFECTS: Tumorigenic - Neoplastic by RTECS criteria Tumorigenic - Neoplastic by RTECS criteria Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.						
Section IV. First	st Aid Measu	ıres				
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 for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.					
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.					

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Section V.	Fire and Explosion Data					
Flammability	Flammable. Auto-Ignition Not available.					
Flash Points	Not available.	Flammable Limits	Not available.			
Combustion Products	These products are toxic carbon oxides (CO, CO ₂), metallic oxides.					
Fire Hazards	Not available.					
Explosion Hazards	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		Flammable solid.				
Section VI.	Accidental Release Measures					
Spill Cleanup Instructions	sensitizer. Possibly carcinogenic material. Stop leak if without risk. DO NOT get water	r inside container. DO NOT to vapors. Prevent entry into sew	groscopic material. This material is a possible buch spilled material. Use water spray curtain to ers, basements or confined areas; dike if needec es for assistance on disposal.			
Section VII.	Handling and Storage					
Handling and Storage Information	FLAMMABLE. TOXIC. AIR AND LIGHT SENSITIVE. HYGROSCOPIC. POSSIBLE SENSITIZER. POSSIBLE CARCINOGEN. STORE UNDER INERT GAS. Keep locked up Keep away from heat. Mechanical exhaust required. Avoid excessive heat and light. DO NOT ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medica advice immediately and show the container or the label. Treat symptomatically and supportively. Always store away from incompatible compounds such as oxidizing agents, acids, moisture.					
Section VIII.	Exposure Controls/Personal I	Protection				
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommende exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminant below the exposure limit.					
Personal Protection			OSH approved respirator must be used to avoi icient; consult a specialist BEFORE handling thi			
Exposure Limits	This chemical is classified as a possible carci	This chemical is classified as a possible carcinogen. There is no acceptable exposure limit for a carcinogen.				
Section IX.	Physical and Chemical Proper	rties				
Physical state @ 20°C		Solubility	Very slightly soluble in toluene.			
Specific Gravity	Not available.		Insoluble in water.			
Molecular Weight	188.88	Partition Coefficient	Not available.			
Boiling Point	Not available.	Vapor Pressure	Not applicable.			
Melting Point	165 ℃ (329 °F)	Vapor Density	Not available.			
Refractive Index	Not available.	Volatility	Not available.			
Critical Temperature	Not available.	Odor	Not available.			
Viscosity	Not available.	Taste	Not available.			
	Stability and Reactivity Data					
Section X.		This material is stable if stored under proper conditions. (See Section VII for instructions)				
Section X. Stability		conditions. (See Section VII for	rinstructions)			
Section X. Stability Conditions of Instability	This material is stable if stored under proper of	•				

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Section XI.	Toxicological Information
RTECS Number	QR6500000
Routes of Exposure	Eye Contact. Ingestion. Inhalation.
Toxicity Data	Rat LD ₅₀ (oral) 490 mg/kg Mouse LD ₅₀ (oral) 600 mg/kg Rat LD ₅₀ (intraperitoneal) 50 mg/kg
Chronic Toxic Effects	CARCINOGENIC EFFECTS : Not available. MUTAGENIC EFFECTS : Not available. TERATOGENIC EFFECTS : Tumorigenic effects. Rat TD Intramuscular 600 mg/kg for 47 weeks intermittent TOXIC EFFECTS: Tumorigenic - Neoplastic by RTECS criteria Blood - Lymphomas including Hodgkin's disease Tumorigenic - Tumors at site of application Rat TD Intramuscular 50 mg/kg TOXIC EFFECTS: Tumorigenic - Equivocal tumorigenic agent by RTECS criteria Musculoskeletal - Tumors Skin and Appendages - Tumors Rat TD Intramuscular 50 mg/kg for 46 weeks intermittent TOXIC EFFECTS: Tumorigenic - Neoplastic by RTECS criteria Tumorigenic - Tumors at site of application DEVELOPMENTAL TOXICITY: Not available. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.
Acute Toxic Effects	Toxic if ingested or inhaled. Avoid prolonged contact with this material. Overexposure may result in serious illness or death. Skin contact may result in sensitization. Always cover all exposed skin with an impermeable layer and use proper eye protection. A OSHA/MSHA approved dust and vapor respirator is required when working with this material. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.
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 dissolve or mix material with combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe a federal, state and local regulations when disposing of the substance.
Section XIV.	Transport Information
DOT Classification	DOT CLASS 4.1: Flammable solid.
PIN Number	UN1325
Proper Shipping Name	Flammable solid, organic, n.o.s.
Packing Group (PG)	11
DOT Pictograms	
A	

Section XV. Ot	ther Regulatory Information and Pictograms
TSCA Chemical Inventory (EPA)	This compound is ON the EPA Toxic Substances Control Act (TSCA) inventory list.
WHMIS Classification (Canada)	CLASS B-4: Flammable solid. CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). On NDSL.
EINECS Number (EEC)	215-039-0
EEC Risk Statements	R11- Highly flammable. R18- In use, may form flammable/explosive vapor-air mixture. R23/24/25- Toxic by inhalation, in contact with skin and if swallowed. R45- May cause cancer.
Japanese Regulatory Data	Not available.

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Section XVI. Other Information

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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 on determined 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 user of appropriate protective equipment (e.g. 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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