SDS Sheet Supplied by:



SAFETY DATA SHEET — 16 Sections

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Ide	entifier ellow Indicator Reagent						[WHMIS CI	assification]		
Product Us Laborato	e ory Chemicals, R & D Use									
Manufactur	er's Name				Supplier's Name					
James Instruments, Inc.				Avantor Performance Materials, Inc.						
Street Address				Street Address						
3727 N	NKedzie Ave.				3477 Corpor	ate Parkwa	y, Suite 2	00		
City			State		City				State	
Chicag	•		IL		Center Valle	У			PA	
Postal Cod	е		y Telephone		Postal Code			Emergency	·	
60618		800-42			18034 908-859-2151			-2151		
Date MSDS	•		MSDS Prep		ts, Inc. Phone Number 1-773-463) CECE	
July 18, 2	2019		James	Instrumen	is, inc.		1-773-	403-030	າວ	
SECTIO	ON 2 — COMPOS	SITION/	INFORM	MATION O	N INGRED	DIENTS				
Hazardous I	lazardous Ingredients (specific)		Content %	CAS Number		LD 50 of Ingredient (specify species and route		nuto	LC 50 of Ingredient (specify species)	
Sodium Cob	paltinitrite -Supersaturated	soln.(60ml	L) 5-10	13600-9	8-1					
	·	`	,							
SECTIO	ON 3 — HAZARDS	SIDEN	TIFICAT	TON						
Route of Entry	Skin Contact	Skin Absorpt	ion 🎜	Eye Contact	Inhalation	√ Inge	stion			
Emergency Ove	rview] If exposed or concer	ned: Get r	nedical adv	ice/attention. C	all a POISON	CENTER a	nd or phys	sician.		
WHMIS Symbo							. ,			
Potential Health I		ition to skin. Svr	motoms include re	edness itching and p	ain May cause dermat	titis				
	ses irritation to the respiratory tract, syr						aethma may ar	poor Inhalation	of cohalt dust and fumos is associate	
	d incidence of lung disease.	nptoms may inc	nude cougning, si	lorthess of breath, an	u nausea. Respiratory	пурегѕепѕшицу,	astiiiia iiiay a _l	pear. Illialation	TOI CODAIL dust and fumes is associat	
<u> </u>	auses irritation, redness, and pain									
-	 Causes abdominal pain, nausea, von le amounts depress erythrocyte produc 	-	of the face and ea	rs, mild hypo-tension,	rash, and ringing in the	e ears. May have	cumulative tox	ic action where	elimination cannot keep pace with	
SECTIO	ON 4 — FIRST AII	D MEAS	SURES							
Skin Contact	Wash skin throughly (about before re-use.	15 minutes) with soap ar	nd water. Get me	edical attention if	irritation pers	ists after w	ashing. Was	sh contaminated clothing	
Eye Contact	Flush thoroughly with water	for about 15	5 minutes. If i	rritation continue	s to occur, get m	edical assista	ance.			
Inhalation	Move to fresh air. If breathin	g is difficult,	, give oxygen	. Get medical att	ention if sympton	ns persist. (S	how Data S	heet to doc	tor in attendance.)	
Ingestion	Rinse mouth thoroughly. Ind	uce vomitin	g immediately	y. Drink a few gla	asses of water or	milk. Call a F	OISON Ce	nter or doct	or/physician if you feel unwe	

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SECTION 5 — FIRE FIGHTING MEASURES

Flammable Tyes No	If yes, under which conditions?					
	Not combustible, but substance is an oxidizer and its heat of reaction with reducing agents or combustible may cause ignition.					
Means of Extinction Water spray, dry powder or carbon dioxide. Move containers from fire a	rea if possible without risk. Use standard protective equipment, flame retard	dant and NIOSH self contained breathing apparatus.				
Flashpoint (° C) and Method	Upper Flammable Limit (% by volume)	Lower Flammable Limit (% by volume) No information available				
No information available	No information available					
Autoignition Temperature (°C)	Explosion Data — Sensitivity to Impact	Explosion Data — Sensitivity to Static Discharge				
No information available	No information available	No information available				
Hazardous Combustion Products						
N/EDA1						
[NFPA]						

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures

Keep unauthorized personnel away. Use personal protective equipment. Ventilate area of leak or spill. (See section 8 of the MSDS for Personal Protective Equipment) Sweep up and containerize with clearly labeled container for chemical waste removal. Avoid dust formation. Clean surface thoroughly to remove residual contamination. Prevent entry into waterways, sewer, basement or confined areas. Stop leak if you can do so without risk.

Inform authorities if large amounts are involved. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

SECTION 7 — HANDLING AND STORAGE

Handling Procedures and Equipment
* Use personal protective equipment as required. * Avoid contact with eyes, skin, and clothing. * Avoid inhalation of dust.
* Wash thoroughly after handling. * Wash hand before eating eat, drink, or smoke in workplace.
Storage Requirements
* Keep in a tightly closed container, stored in a dry, cool, ventilated area. * Protect against physical damage and moisture. * Isolate from any source or ignition.
* Avoid storage on wood floors. * Separate from incompatibles combustibles, organic or other readily oxidizable materials.

* Routinely wash work clothing and protective equipment to remove any contaminants.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION							
Exposure Limits	⊄ ACGII	H TLV (0.02 mg/m³) A3: Animal Carcinogen	₩ OSHA PEL	(0.1 mg/m³) Cobalt metal dust/ fume as Co.	Other (specify	·)	
Specific Engineering Controls (such as ventilation, enclosed process)							
A Ventilation system of local and/or general exhaust is recommended to keep employee exposure below the Airborne Exposure limits.							
Typically 10 Air changes should be made per hour. If exposure limits have not been established, maintain airborne levels to an acceptable level.							
An eye wash and safety shower must be available in the immediate work area.							
Personal Protective Equipment	Gloves	Respirator	√ Eye	☐ Footwear	Clothing	☐ Other	
If checked, please specify type * Skin Protection: Wear protective gloves. * Wear suitable protective clothing. * Respiratory Protection: In case or inadequate ventilation use suitable respirator.							
* Eye Protection: Use tight fitting goggles if dust is generated.							
* Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking.							

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid (before added to water)	Odour and Appearance Odorless / Yellow-Orange Powder	Odour Threshold (ppm) No data available			
Specific Gravity	Vapour Density (air = 1)	Vapour Pressure (mmHg)			
No data available	No data available	No data available			
Evaporation Rate	Boiling Point (° C)	Freezing Point (° C)			
No data available	No data available	No data available			
pH	Coefficient of Water/Oil Distribution	[Solubility in Water]			
No data available	No data available	Very soluble			
SECTION 10 — STABILITY AND	REACTIVITY				
Chemical Stability Yes No If no, under which conditions? Material is stable under normal conditions.					
Incompatibility with Other Substances No	If yes, which ones? Strong reducing agents. Organic compounds. Flammable/combustible material(s).				
Possibility of hazardous reactions: Hazardous pol	ymerization does not occur.				
Reactivity, and under what conditions? Contact with c	combustible material may cause fire.				
Hazardous Decomposition Products					
<u> </u>		lung suiden of Nitroman			
Table madel from a many from the first track that the	ecomposition. Thermal decomposition may proc	luce oxides of Nitrogen.			
Toxic metal fumes may form when heated to de					
Toxic metal fumes may form when heated to de	L INFORMATION				
	L INFORMATION				
SECTION 11 — TOXICOLOGICA	L INFORMATION				
	 L INFORMATION				

SECTION 11 — TOXICOLOGICAL INFORMATION					
Effects of Acute Exposure No data available					
Effects of chronic exposure No data available					
Irritancy of Product May cause skin irritation. May irritate eyes. May cause allergy or asthma symptoms or breathing difficulties if inhaled.					
Skin sensitization May cause skin irritation, or an allergic skin reaction	Respiratory sensitization May cause allergy or asthma/breathing problems				
Carcinogenicity-IARC Suspected of causing cancer to humans. Eval 2B	Carcinogenicity - ACGIH				
Reproductive toxicity No data available	Teratogenicity				
Embrotoxicity	Mutagenicity No mutagenic components identified.				
Name of synergistic products/effects					

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nvironmentally hazardous. However, this does not	exclude the possibility				
ne environment.					
onal, state or local laws. Be sure to check with lo	cal ordinances before				
% content.					
	PIN				
[DOT]					
[ICAO]					
[OSHA] None present, or nor present in regulat	ted quantities.				
[TSCA]					
fied in accordance with the hazard criteria or nd the MSDS contains all of the information in	f the required by CPR.				
The information listed on this SDS is based on data provided by the manufacturer; SDS revised Sept, 2016.					
*					
aterial or in any process, unless specified in the to	ext.				
	me environment. Donal, state or local laws. Be sure to check with local laws. Be sure to				