& Boreal Laborato	ries PC	Box 5059 Fiero Lane Luis Obispo CA 93403	Boreal Laborato 399 Vansickie Ruar St Catharines Onto		MSDS Effective	No.	NN 140 NN 145 Septembe	er 29, 1992
SECTION		NAME	24 F	OUR E	MERGEN	CY AS	SISTA	NCE
Product	NICKE	CHLORIDE	_ /	0 CHEMTREC Health 3				
Chemical Synonyms	Nickelous Chloride Hexahydrate			_ 🤄	NFPA HAZARD RATING LEAST SUGHT MODERATE HIGH EXTREME			
Formula	NiCl ₂ -6H ₂ O			N				
Unit(s) Size	100, 500 grams; 2.5 Kg.			Н				
C.A.S. No.	7791-2)-0			0 1 2 3 4			4
SECTION		HAZARDO	DUS INGRE	DENT	S OF MIX	TURES	}	
Principal Hazardous Component(s)					· % T		LV Units	
Nickel Chloride					100% Se		ee Section V.	
WARNING! HARMFUL IF INHALED OR SWALLOWED.								
CAU								
CAUSE ALLERGIC SKIN REACTION.								
SECTION III PHYSICAL DATA								
Melting Point (°F)		Data not listed.		Specific Gravity (H ₂ O = 1)		3.55 at 20°C		
Boiling Point (°F)		987°C (1808°F)		Percent Volatile by Volume (%)		Non-volatile (NA).		
Vapor Pressure (mm Hg)		1 mm at 671°C		Evaporation (Evaporation Rate (=1)		Non-volatile (NA).	
Vapor Density (Air=1)		Data not listed.						
Solubility in Water		254 grams in 100 mL. water at 20°C.						
Appearance & O	dor	Green, deliquescent crystals or crystalline powder; with slight acidic odor.						
SECTION	V	FIRE AN	DEXPLOS	The second secon		TA		
lash Point Method Used)				its in Air Lower		Up	per	
Extinguisher Media	Use any media suitable for extinguishing supporting fire.							
SPECIAL FIREF PROCEDURES	IGHTING							
			fire conditions, w paratus and pro					

777 East Park Drive MATERIAL SA	AFETY DATA SHEET	SECTION V HEALTH HAZARD DATA				
Science K. (716) 874 6020	NN 140	Threshold Limited Value ACGIH-TLV 8 HR. TWA 1984-85: Soluble comps as Ni.				
Boreal Science Kit & Boreal Boreal Laboratories Lid.	MSDS No. NN 145	As Nickel: CAS No. 7440-02-0 1 mg/m ³ . In fume or respirable air.				
Laboratories P.O. Box 5059 815 Fiero Lane San Luis Obispo CA 93403 St. Catharines R. Orlano L25 314	Effective Date September 29, 1992	Effects of Overexposure INGESTION: Causes irritation and may cause vomiting, gingivitis and stomatitis. INHALATION: Dust causes upper respiratory tract irritation and				
The second secon	MERGENCY ASSISTANCE	repeated exposure may result in lung damage. Individuals hypersensitive to				
Product NICKEL CHLORIDE	CHEMTREC	nickel may develop asthma, bronchitis, shortness of breath, wheezing. EYES: Dust causes irritation. SKIN: Causes irritation. Repeated contact				
Chemical Chemical	0 800-424-9300 Health 3	may cause allergic skin reaction.				
Synonyms Nickelous Chloride Hexahydrate	0 Day 716-226-6177 Night 716-334-4222 Fire 0	Emergency and EYES: Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. SKIN: Flush				
Formula NiCl ₂ -6H ₂ O	Ponetivity 0	First Aid Procedures thoroughly with water, then wash with mild soap and water. INGESTION: If swallowed, treat symptomatically and supportively. If vomiting occurs, keep				
[4]	ZARD RATING	head lower than hips to prevent aspiration. If conscious, give as soon as possible large quantities of milk or water to drink. Get immediate medical				
LEAST	SLIGHT MODERATE HIGH EXTREME 1 2 3 4	attention. Never give anything by mouth to an unconscious person. INHALATION: Remove to fresh air. If discomfort or illness develops, get				
C.A.S. No. 7791-20-0 0 SECTION II HAZARDOUS INGREDIENTS		medical attention. If breathing is difficult, give oxygen. If breathing has				
Principal Hazardous Component(s)		stopped, give artificial respiration. SECTION VI REACTIVITY DATA				
Principal Hazardous Component(s)	% TLV Units	Unstable Conditions to Avoid				
Nickel Chloride	100% See Section V.	Stability Stable x Excessive temperature and heat.				
WARNING! HARMFUL IF INHALED OR SWALLOWED.		Incompatibility				
CAUSES SKIN AND EYE IRRITATION. CAN		(Materials to Avoid) Strong alkalies, acids, potassium and other water reactive materials.				
CAUSES SKIN AND ETE INHITATION. CAN		Hazardous Thomas december 1				
CAUSE ALLERGIC SKIN REACTION.		Thermal decomposition or burning may produce hazardous nickel dust or fume and hydrogen chloride.				
SECTION III PHYSICAL DATA	CAR RESULTED AS A WARREN	Hazardous Polymerization Conditions to Avoid				
Melting Point (°F) Data not listed. Specific Gravity	(H ₂ O = 1) 3.55 at 20°C	May Occur Will Not Occur Not applicable.				
Boiling Point (°F) 987°C (1808°F) Percent Volable by Volume (%)	Non-volatile (NA).	X				
Vapor Pressure (mm Hg) 1 mm at 671°C Evaporation Ra	=1) Non-volatile (NA).	SECTION VII SPILL OR LEAK PROCEDURES				
Vapor Density (Air=1) Data not listed.		Steps to be taken in case				
Solubility in Water 254 grams in 100 mL. water at 20°C.		material is released or spilled Wearing suitable protective clothing and avoid making dust, sweep up material and place in a suitable container for disposal				
	ulan mitta aliah kasidia adas	in an approved chemical landfill.				
Appearance & Odor Green, deliquescent crystals or crystalline pow		Waste Disposal Method Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of calculation only.				
SECTION IV FIRE AND EXPLOSION HAZ Flash Point Flammable Limits in Air	Lower Upper	Those disposal guidelines are line floor for the disposal of calaby-size quantities only.				
	VA	Dispose of in an approved chemical landfill or contract with a licensed waste disposal service.				
Extinguisher Media Use any media suitable for extinguishing supporting fire.		3000 CONTROL OF CONTRO				
Media Use any media suitable for extinguishing supporting fire.	4	SECTION VIII SPECIAL PROTECTION INFORMATION Respiration Protection None should be needed in normal laboratory handling. If dusty conditions prevail, work in				
SPECIAL FIREFIGHTING		(Specify Type) ventilation hood or wear a NIOSH-approved dust mask or respirator.				
PROCEDURES		Ventilation Local Exhaust Recommended. Special No. Mechanical (General) Recommended. Other No.				
	H-approved self-contained breathing					
apparatus and protective cioinir eyes.	ng to prevent contact with skin and	Protective Gloves Rubber. Eye Protection Chemical safety glasses.				
		Equipment Gloves, lab coat, apron, ventilation hood, proper gloves, eye wash station.				
(1987 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.4, GUIDE I	PAGE NO. 31)	SECTION IX SPECIAL PRECAUTIONS				
UNUSUAL FIRE AND		Precautions to be Taken in Handling & Storing Store in a cool, dry place away from strong alkalies.				
EXPLOSION HAZARDS		Keep container tightly closed when not in use. Wash thoroughly after handling.				
	No unusual fire or explosive hazards	Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.				
are associated with this materia hazardous decomposition of nic	Fire or excessive heat may produce dust or fume and hydrogen	Use with adequate ventilation. Do not get in eyes, on skin, on dothing.				
chloride.	The second light and Hydrogon	Avoid breathing dust. Remove and wash contaminated clothing.				
		For laboratory use only. Not for drug, food or household use. Keep out of reach of children.				
		Rev. No. No. 3 Date 9/29/92 Approved Alexander A. Piccirilli Chemical Salety AP				
D.O.T. NON-REGULATED.		The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered				
Approved by U.S. Department of Labor "essentially similar" to form OSHA-20		by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees.				