MATERIAL SAFETY DATA SHEET

ALDON CORPORATION
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MSDS No. NN 140
Effective Date April 5, 1999

SECTION I NAME

Product	NICKEL CHLORIDE
Chemical Synonyms	Nickelous Chloride Hexahydrate
Formula	$NiCl_2 \cdot 6H_2O$
Unit Size	up to 2.5 Kg.
C.A.S. No.	7791-20-0

24 HOUR EMERGENCY ASSISTANCE

CHEMTREC
800-424-9300
Day 716-226-6177

Health	3
Fire	0
Reactivity	0

NFPA HAZARD RATING — **HMIS ***

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Nickel Chloride	100%	See Section V.
WARNING! HARMFUL IF INHALED OR SWALLOWED.		
CAUSES SKIN AND EYE IRRITATION. CAN		
CAUSE ALLERGIC SKIN REACTION.		

SECTION III PHYSICAL DATA

Melting Point (°F)	Data not listed.	Specific Gravity (H_2O = 1)	3.55 at 20°C
Boiling Point (°F)	987°C (1808°F)	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	1 mm at 671°C	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	254 grams in 100 mL. water at 20°C.		
Appearance & Odor	Green, deliquescent crystals or crystalline powder; with slight acidic odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume N/A	Lower	Upper
Extinguisher Media	Use any media suitable for extinguishing supporting fire.			

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS

This material is non-flammable. No unusual fire or explosive hazards are associated with this material. Fire or excessive heat may produce hazardous decomposition of nickel dust or fume and hydrogen chloride.

D.O.T. **NON-REGULATED.**

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA NN 140

Threshold Limited Value

ACGIH-TLV 8 HR. TWA 1984-85: Soluble compounds as Ni.
As Nickel: CAS No. 7440-02-0 1 mg/m^3. In fume or respirable air.

Effects of Overexposure

TARGET ORGANS AFFECTED: Heart, brain, kidneys, central nervous system.
INGESTION: Causes irritation and may cause vomiting, gingivitis and stomatitis.
INHALATION: Dust causes upper respiratory tract irritation and repeated exposure may result in lung damage. Individuals hypersensitive to nickel may develop asthma, bronchitis, shortness of breath, wheezing. **EYES:** Dust causes irritation.
SKIN: Causes irritation. Repeated contact may cause allergic skin reaction.

Emergency and First Aid Procedures

EYES: Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INGESTION:** If swallowed, treat symptomatically and supportively. If vomiting occurs, keep 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 attention. Never give anything by mouth to an unconscious person.
INHALATION: Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Call physician immediately.

SECTION VI REACTIVITY DATA

Stability	**Unstable**		**Conditions to Avoid**
	Stable	X	Excessive temperature and heat.

Incompatibility (Materials to Avoid) Strong alkalies, acids, potassium and other water reactive materials.

Hazardous Decomposition Products Thermal decomposition or burning may produce hazardous nickel dust or fume and hydrogen chloride.

Hazardous Polymerization		**Conditions to Avoid**
May Occur	**Will Not Occur**	Not applicable.
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Wearing suitable protective clothing and avoid making dust, sweep up material and place in a suitable container for disposal. Wash spill area with soap and water.

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 catalog-size quantities only.
Dispose of in an approved chemical landfill or contract with a licensed waste disposal agency.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None should be needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.

Ventilation	**Local Exhaust**	Recommended.	**Special**	No.
	Mechanical (General)	Recommended.	**Other**	No.

Protective Gloves Rubber. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Gloves, lab coat, apron, ventilation hood, proper gloves, eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Keep container tightly closed when not in use.

Store in a cool, dry place away from strong alkalies.
Wash thoroughly after handling.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.

Avoid breathing dust. Use with adequate ventilation. Do not get in eyes, on skin, on clothing. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 6	Date 4/5/99	Approved Michael Raszeja	Chemical Safety Coordinator MR