

Material Safety Data Sheet

U.S. Department of Labor

Occupational Safety and Health Administration



Required under USDL Safety and Health Regulations for Shipyard Employment (29 CFR 1915)

OMB No. 1218-0074
Expiration Date 05/31/P

Nickelous Chloride

CAS No. 07791-20-0 DOT: ORM-E NA 9138

Section I

Manufacturer's Name

Sargent-Welch Scientific Company

Emergency Telephone Number

312-677-0600

Address (Number, Street, City, State, and ZIP Code)

7300 N. Linder Ave.

Chemical Name and Synonyms

Nickelous Chloride, 6-Hydrate

Trade Name and Synonyms

Nickel (II) Chloride, Hexahydrate

Chemical Family

Formula

$NiCl_2 \cdot 6H_2O$

Section II - Hazardous Ingredients

Paints, Preservatives, and Solvents

% TLV (Units)

Alloys and Metallic Coatings

% TLV (Units)

Paints, Preservatives, and Solvents	% TLV (Units)	Alloys and Metallic Coatings	% TLV (Units)
Pigments		Base Metal	
Catalyst		Alloys	
Vehicle		Metallic Coatings	
Solvents		Filler Metal Plus Coating or Core Flux	
Additives		Others	
Others			

Hazardous Mixtures of Other Liquids, Solids or Gases

% TLV (Units)

Nickelous Chloride, 6-Hydrate

90-100%

Section III - Physical Data

Boiling Point (°F)	NA	Specific Gravity (H ₂ O=1)	3.55
Vapor Pressure (mm Hg.)	NA	Percent Volatile by Volume (%)	0
Vapor Density (AIR=1)	NA	Evaporation Rate _____ =1)	NA
Solubility in Water	Complete, in all proportions		

Appearance and Odor

Green crystals or crystalline powder

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	NA	Flammable Limits	LeI	UeI
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Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

Special Fire Fighting Procedures

Use self-contained, positive pressure, breathing apparatus with full facepiece. Move ex-

posed containers from fire area if possible. Keep fire-exposed containers cool with water.

Unusual Fire and Explosion Hazards

Closed containers exposed to heat may explode. Hydrogen chloride gas may be released.

Section V - Health Hazard Data

Threshold Limit Value 0.1 mg/m³ LD₅₀ (ipr-mouse) (mg/kg) -48

Effects of Overexposure Carcinogen. Harmful if swallowed. Dust may irritate eyes, skin and respiratory system. Dust may cause headache, coughing, dizziness or breathing difficulty.
Contact may cause burns.

Emergency First Aid Procedures EYES: Flush with flowing water for 15 minutes. Seek medical attention.
SKIN: Wash contact area thoroughly with soap and water. INHALATION: Move to fresh air.
Seek medical attention. INGESTION: If conscious, have patient drink water and immediately induce vomiting. Seek immediate medical attention.

Section VI - Reactivity Data

Stability	Unstable	Conditions to Avoid
	Stable	
X		

Incompatibility (Materials to Avoid)

Hazardous Decomposition Products

Hydrogen Chloride

Hazardous Polymerization	May Occur	Conditions to Avoid
	Will Not Occur	
X		

Section VII - Spill or Leak Procedures

Steps to be Taken in Case Material is Released or Spilled

Wear protective equipment. Gather up spilled chemical and place in a sealed container for disposal in an approved land fill.

Waste Disposal Method

Disposal in accordance with all applicable federal, state and local environmental regulations.

Section VIII - Special Protection Information

Respiratory Protection (Specify Type)

Appropriate dust or mist NIOSH approved respirator.

Ventilation	Local Exhaust	Special
	Mechanical (General)	
Yes		Other
Yes		

Protective Gloves Rubber gloves Eye Protection Emergency eye wash and shower
Safety goggles

Other Protective Equipment Laboratory apron or coat

Section IX - Special Precautions

Precautions to be Taken in Handling and Storing

Store in a tightly closed container in a cool, dry area. Store in secure poison area.

Other Precautions

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