STEVESTON CHEMICAL SOLUTIONS

SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

TRADE NAME (AS LABELED):	Nickel Acetate
SYNONYMS:	None
CAS#:	6018-89-9
PRODUCT USE:	Various uses
CHEMICAL SHIPPING NAME/CLASS:	**See section 14**
U.N. NUMBER:	UN3077
MANUFACTURER'S NAME:	Various Manufacturers
DISTRIBUTOR'S NAME:	Steveston Chemical Solutions Ltd.
ADDRESS:	2060 Viceroy Place, Richmond, BC, Canada V6V 1Y9
EMERGENCY PHONE:	(800) 424-9300 (CHEMTREC)
BUSINESS PHONE:	(604) 831-5868
DATE OF PREPARATION:	November 18, 2010
DATE OF REVISION:	December 06, 2021
DATE OF REVIEW:	December 06, 2021

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

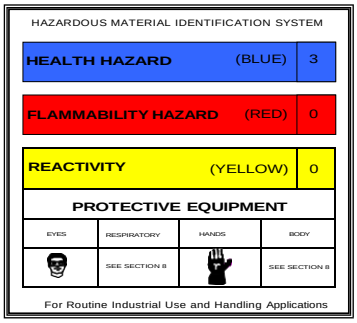
Product Description: This product is a Green powder, fine particle with no odor.
Health Hazards: Harmful if swallowed or inhaled. Causes irritation to skin, eyes and respiratory tract. May cause nasal or lung damage. May cause allergic skin or respiratory reaction. Cancer hazard. Can cause cancer. Risk of cancer depends on duration and level of exposure.
Flammability Hazards: Non-Flammable product.
Reactivity Hazards: This product is not reactive.
Environmental Hazards: Release of the product may cause adverse effects to the aquatic environment.
Emergency Recommendations: Emergency responders must have personal protective equipment and fire protection appropriate for the situation to which they are responding.

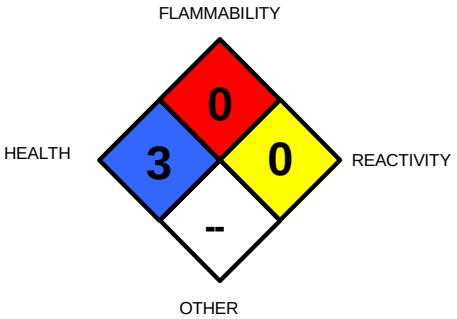
EU LABELING AND CLASSIFICATION: This product meets the definition of a hazardous substance or preparation according to EU Regulations (EC) No 1272/2008.

INDEX NUMBER: 028-022-00-6

COMPONENT(S) DETERMINING HAZARD:

Nickel Acetate





GHS CLASSIFICATIONS:

Acute Oral Toxicity Category 4
Acute Inhalation Toxicity Category 4
Skin Irritation Category 2
Resp. Sensitizer Category 1
Skin Sensitization Category 1
Germ Cell Mutagenicity Cat 2
Carcinogenicity Category 1
Reproductive Toxicity Category 1
Specific Target Organ Toxicity – Repeated Exposure Category 1
Aquatic Acute Category 1
Aquatic Chronic Category 1

SIGNAL WORD: DANGER

Scale: **0** = Minimal **1** = Slight **2** = Moderate
3 = Serious **4** = Severe * = Chronic hazard

HAZARD STATEMENT:

H302	Harmful if swallowed
H332	Harmful if inhaled
H315	Causes skin irritation
H334	May cause allergy or breathing difficulties if inhaled
H317	May cause an allergic skin reaction
H341	Suspected of causing genetic defects
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

PREVENTION STATEMENT:

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breath dust/fume/gas/mist/vapor/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.

RESPONSE STATEMENT:

P310	Immediately call a POISON CENTER/doctor if you feel unwell.
P363	Wash contaminated clothing before reuse
P301+P312:	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330:	Rinse mouth.
P302+P352:	IF ON SKIN: Wash with plenty of water.
P305+P351+P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P321	Specific Treatment (See Section 4 of this SDS).
P308 + P313	IF exposed or concerned: Get medical advice/attention
P333 + P313	IF skin irritation or rash occurs: Get medical advice/attention
P391	Collect spillage.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P362+P364	Take off immediately all contaminated clothing and wash it before reuse.
P314	Get medical advice/attention if you feel unwell.

STORAGE STATEMENT:

P405	Store locked up.

DISPOSAL STATEMENT:

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

HEALTH EFFECTS OR RISKS FROM EXPOSURE:

ACUTE: Very hazardous in case of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (irritant, permeator). Inflammation of the eye is characterized by redness, watering, and itching.
CHRONIC: CARCINOGENIC EFFECTS: Classified A1 (Confirmed for human.) by ACGIH, 1 (Proven for human.) by IARC, + (PROVEN) by OSHA. Classified 2 (Reasonably anticipated.) by NTP. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients:	WT%	CAS#	EINECS #	Hazard Classification
Nickel Acetate	100%	6018-89-9	206-761-7	Acute Tox Cat 4 (Oral, Inhalation), Skin Irrit Cat 2, Resp Sens Cat 1, Skin Sens Cat 1, Muta Cat 2, Carc Cat 1, Repr Cat 1, STOT RE Cat 1, Aquatic Acute / Chronic Cat 1
Balance of other ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).				

4. FIRST-AID MEASURES

SKIN EXPOSURE: If this product contaminates the skin, begin decontamination with running water. Minimum flushing is for 5 minutes. Remove exposed or contaminated clothing, taking care not to contaminate eyes. The contaminated individual should seek medical attention if any adverse effect occurs.
EYE EXPOSURE: If this product enters the eyes, open contaminated individual's eyes while under gently running water. Use sufficient force to open eyelids. Remove contact lenses if worn. Have contaminated individual "roll" eyes. Minimum flushing is for 15 minutes. Contaminated individual must seek immediate medical attention.
INHALATION: If dusts generated by this product are inhaled, remove contaminated individual to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing distress continues.
INGESTION: Routine use of this product is not expected to cause any situation which could lead to ingestion. If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION.
If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or unable to swallow.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Skin contact with some nickel compounds in sensitive individuals may cause dermatitis (nickel itch).
RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate overexposure.

5. FIRE-FIGHTING MEASURES

FLASH POINT: May be combustible at high temperature.

AUTOIGNITION TEMPERATURE: Not Applicable

FLAMMABLE LIMITS (in air by volume, %): Lower NA Upper NA
FIRE EXTINGUISHING MATERIALS: Use fire extinguishing methods below:

Water Spray: Yes	Carbon Dioxide: Yes
Foam: Yes	Dry Chemical: Yes
Halon: Yes	Other: Any “C” Class

UNUSUAL FIRE AND EXPLOSION HAZARDS: When heated to decomposition it emits acrid smoke and irritating fumes.

Explosion Sensitivity to Mechanical Impact: No
Explosion Sensitivity to Static Discharge: No

SPECIAL FIRE-FIGHTING PROCEDURES: Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Proper protective equipment should be used. Stop the flow of material, if this can be done safety. Contain discharged material. For spills of solid material, sweep-up or vacuum spilled solid, minimizing the generation of dust. Place in a proper container for reclamation or disposal. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

7. HANDLING and STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing dusts generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

STORAGE AND HANDLING PRACTICES: Containers of this product must be properly labeled. Empty containers should be handled with care. Store containers in a cool, dry location. Keep container tightly closed when not in use.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Chemical Name	CAS#	ACGIH TLV	OSHA TWA
Nickel Acetate	6018-89-9	0.1 mg/m³	1.0 mg/m³

The above Exposure limits are for Nickel, metal and insoluble compounds, as Ni:

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below. Use a chemical fume hood or local exhaust ventilation, and process enclosure if necessary, to control airborne dust. Ensure eyewash/safety shower stations are available near areas where this product is used.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

RESPIRATORY PROTECTION: Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION: Safety glasses or goggles are recommended. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

HAND PROTECTION: Use chemically-resistant gloves when handling this product. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

BODY PROTECTION: Use body protection appropriate for task (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

9. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE (Physical State) and COLOR: Green powder, fine particle with no odor
ODOR: Odorless
ODOR THRESHOLD: Odorless
pH: No Data
MELTING/FREEZING POINT: No Data
BOILING POINT: No Data
FLASH POINT: May be combustible at high temperature.
EVAPORATION RATE (n-BuAc=1): Not Applicable
FLAMMABILITY (SOLID, GAS): Not Available
UPPER/LOWER FLAMMABILITY OR EXPLOSION LIMITS: Not Available
VAPOR PRESSURE (mm Hg @ 20°C (68°F): No Data
VAPOR DENSITY: No Data
RELATIVE DENSITY: Not Available
SPECIFIC GRAVITY: 1.798
SOLUBILITY IN WATER: Insoluble
PARTITION COEFFICENT (n-octanol/water): Not Available
AUTO-IGNITION TEMPERATURE: Not Applicable
DECOMPOSITION TEMPERATURE: Not Available
VISCOSITY: Not Applicable

10. STABILITY and REACTIVITY

STABILITY: Stable under conditions of normal storage and use.
HAZARDOUS DECOMPOSITION PRODUCTS: Toxic and highly flammable nickel carbonyl.
MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Highly reactive with acids. Reactive with oxidizing agents.
POSSIBILITY OF HAZARDOUS REACTIONS: Will not occur.
CONDITIONS TO AVOID: Incompatible materials, dust generation.

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA:
Nickel Acetate CAS# 373-02-4
Acute oral toxicity (LD50): 350 mg/kg [Rat].
SUSPECTED CANCER AGENT: Ingredients within this product are found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are considered to be, or suspected to be, cancer-causing agents by these agencies.
CARCINOGENIC EFFECTS: Classified A1 (Confirmed for human.) by ACGIH, 1 (Proven for human.) by IARC, + (PROVEN) by OSHA. Classified 2 (Reasonably anticipated.) by NTP.
IRRITANCY OF PRODUCT: This product can be irritating to the skin, eyes, and respiratory system with prolonged contact.
SENSITIZATION TO THE PRODUCT: This product may cause allergic skin reactions (e.g., rashes, welts).
REPRODUCTIVE TOXICITY INFORMATION: No reports concerning the effects of this product and its components on the human reproductive system.
MUTAGENICITY INFORMATION: Considered a Germ Cell Mutagenicity hazard.
SINGLE TARGET ORGAN TOXICITY – SINGLE EXPOSURE: Data not sufficient for a classification.
SINGLE TARGET ORGAN TOXICITY – REPEATED EXPOSURE: Prolonged or repeated exposure may cause organ damage.
ASPIRATION HAZARD: Data not sufficient for a classification.

12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

ENVIRONMENTAL STABILITY: Nickel is one of the most mobile heavy metals in aquatic environments and can persist indefinitely in natural waters. No specific data available on this product.

CHEMICAL EFFECT ON PLANTS, ANIMALS AND AQUATIC LIFE: This product is harmful to aquatic life in very low concentrations. This product will be toxic to fish and marine organisms when applied to streams, ponds, rivers or lakes.

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

14. TRANSPORTATION INFORMATION

US DOT, IATA, IMO, ADR:

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS: This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation.

PROPER SHIPPING NAME:	Environmentally hazardous substance, solid, n.o.s.(nickel acetate)
HAZARD CLASS NUMBER and DESCRIPTION:	9
UN IDENTIFICATION NUMBER:	UN3077
PACKING GROUP:	III
DOT LABEL(S) REQUIRED:	Class 9

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER: N
RQ QUANTITY:
MARINE POLLUTANT: The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA): This product is considered as dangerous goods.

PROPER SHIPPING NAME:	Environmentally hazardous substance, solid, n.o.s.(nickel acetate)
HAZARD CLASS NUMBER and DESCRIPTION:	9
UN IDENTIFICATION NUMBER:	UN3077
PACKING GROUP:	III
DOT LABEL(S) REQUIRED:	Class 9
NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER:	N
RQ QUANTITY:	

MARINE POLLUTANT: The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is considered as dangerous goods.

PROPER SHIPPING NAME:	Environmentally hazardous substance, solid, n.o.s.(nickel acetate)
HAZARD CLASS NUMBER and DESCRIPTION:	9
UN IDENTIFICATION NUMBER:	UN3077
PACKING GROUP:	III
DOT LABEL(S) REQUIRED:	Class 9
NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER:	N
RQ QUANTITY:	

MARINE POLLUTANT: The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is not considered by the United Nations Economic Commission for Europe to be dangerous goods.

PROPER SHIPPING NAME:	Environmentally hazardous substance, solid, n.o.s.(nickel acetate)
HAZARD CLASS NUMBER and DESCRIPTION:	9
UN IDENTIFICATION NUMBER:	UN3077
PACKING GROUP:	III
DOT LABEL(S) REQUIRED:	Class 9
NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER:	N
RQ QUANTITY:	

MARINE POLLUTANT: The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

15. REGULATORY INFORMATION

UNITED STATES REGULATIONS:

U.S. SARA REPORTING REQUIREMENTS: The components of this product are Not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for the components of this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

U.S. TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory or are exempted form listing.

OTHER U.S. FEDERAL REGULATIONS: None

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):

WARNING: This product contains nickel acetate which is known to the State of California to cause cancer. For more information go to www.P65warnings.ca.gov

CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: The components of this product are on the DSL Inventory, or are exempted from listing.

OTHER CANADIAN REGULATIONS: Not applicable.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: Classified per WHMIS 2015.

EUROPEAN ECONOMIC COMMUNITY INFORMATION:

EU LABELING AND CLASSIFICATION: This product meets the definition of the following hazard class as defined by the European Economic Community Guidelines.

EU CLASSIFICATION: See Section 2 for details.

AUSTRALIAN INFORMATION FOR PRODUCT: The components of this product are listed on the International Chemical Inventory list.

JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS: The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

JAPANESE ENCS INVENTORY: The components of this product are on the ENCS Inventory as indicated in the section on International Chemical Inventories, below.

POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW: No component of this product is a listed Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac: Listed
Australian Inventory of Chemical Substances (AICS): Listed
Korean Existing Chemicals List (ECL): Listed
Japanese Existing National Inventory of Chemical Substances (ENCS): Listed
Philippines Inventory if Chemicals and Chemical Substances (PICCS): Listed
Swiss Giftliste List of Toxic Substances: Listed
U.S. TSCA: Listed

16. OTHER INFORMATION

PREPARED BY: Chris Eigbrett – (MSDS to GHS Compliance)
DATE OF PRINTING: December 14, 2017

END OF SDS SHEET