

## **Safety Data Sheet**

P308+P313

P403+P233

P404

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

1. Product and Company Identification

1. I Toduct and Compa		
Product Name	Dye-N-Seal Liquid Concentrate – OSHA Yellow	
Manufacturer's name	Horizons Incorporated	
Address	18531 South Miles Road	
	Cleveland, Ohio 44128	
Emergency Telephone Number	(216) 475-0555	
Information Telephone Number	(216) 475-0555	
2. Hazards Identification	on	
GHS Classification		
H302	Acute toxicity, Oral – Category 4	
H332	Acute toxicity, Inhalation – Category 4	
H312	Acute toxicity, Dermal – Category 4	
H316	Skin corrosion/irritation – Category 3	
H320	Serious eye damage/eye irritation – Category 2B	
H317	Skin sensitization – Category 1B	
H350	Carcinogenicity – Category 1A	
H335	Specific target organ toxicity – Single exposure – Category 3	
GHS Label Elements	opening an general g	
Hazard Pictogram		
- nazara r rotogram		
0: 114/		
Signal Word	Danger	
Hazard Statements		
H350	May cause cancer	
H302+H332	Harmful if swallowed or inhaled	
H312	Harmful in contact with skin	
H316	Causes mild skin irritation	
H320	Causes eye irritation	
H317	May cause an allergic skin reaction	
H335	May cause respiratory irritation	
Precautionary Statements		
P201	Obtain special instructions before use	
P202	Do not handle until all safety precautions have been read and understood	
P261	Avoid breathing mists, vapors, & spray	
P264	Wash thoroughly after handling	
P270	Do not eat, drink, or smoke when using this product	
P271	Use only in a well-ventilated area	
P272	Contaminated work clothing should not be allowed out of the workplace	
P280	Wear protective gloves & clothing, and eye & face protection	
P361+P364	Take off immediately all contaminated clothing and wash before reuse	
P301+P330	IF SWALLOWED: Rinse mouth.	
P312	Call a poison center/doctor if you feel unwell	
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	
P333+P337+P313	If skin rash or eye irritation occurs or persists, get medical advice/attention	

Store locked up

If exposed or concerned: Get medical advice/attention

Store in a well-ventilated place. Keep container tightly closed

3. Composition/Information on Ingredients		
Components/ Materials	CAS Number	%
Nickel Acetate	373-02-4	1.9 – 2.0
Nickel (as an integral part of the compound)	7440-02-0	0.61-0.66
Solvent Yellow 19	10343-55-2	<1%
Nickel Acetate is subject to the reporting requirements of section 313 of SARA 313 Title III (40CFR part 372)		

4. First Aid Measure	es
Inhalation	Promptly remove to fresh air. Give artificial respiration or oxygen if breathing has stopped. Get prompt medical attention. Never give anything by mouth to an unconscious person.
Skin Contact	Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention. Wash contaminated clothing before reuse.
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If redness or irritation occurs, seek medical attention.
Ingestion	If ingested, do not induce vomiting. Do not give anything to drink. Contact physician immediately.

5. Fire Fi	5. Fire Fighting Measures		
Flammable Pr	operties	Flash point – non-flammable	
Flammable Limits			
	Lower Flammable Limit	Not applicable	
	Upper Flammable Limit	Not applicable	
Hazardous Combustion Products		Thermal decomposition may produce acrid smoke, sulfur dioxide, nitrogen & carbon oxides, and nickel oxides.	
Unusual Fire/I	Explosion Hazards	None	
Extinguishing Media		Use that of surrounding fire	
Special Firefig	ghting Procedures	Wear self-contained breathing apparatus & protective clothing to prevent contact with skin and eyes.	

6. Accidental Release Measures		
Small Spill	Absorb spill with an inert material and place in a chemical waste container	
Large Spill	Contain spilled liquid with sand or earth. Absorb spill with an inert material and shovel into a chemical waste container. Prevent runoff from entering into sewers and ditches which lead into natural waterways.	

7. Handling and Storage		
Handling	Avoid contact with eyes. Keep container closed. Use only in a well ventilated area. Wash thoroughly after handling. Avoid prolonged or repeated breathing of mists and vapors. Avoid prolonged or repeated contact with skin.	
Storage	Store between 65-85°F. Keep containers sealed when not in use.	

8. Exposure Control/Personal Protection				
Exposure Limits				
Chemical Name	CAS No.	OSHA	ACGIH	NIOSH
Nickel Acetate	6018-89-9	0.1mg/m <sup>3</sup> TWA	0.1 mg/m <sup>3</sup> TWA	0.015mg/m <sup>3</sup> TWA
Tetrahydrate			_	_
Nickel, elemental	7440-02-0	ND	1.5 mg/m <sup>3</sup> TWA	ND
Solvent Yellow 19	10343-55-2	ND	ND	ND
ND – Not Determined				
Engineering Controls		Control airborne concentra	ations below the exposure	e limits. Use only with
		adequate ventilation. Loca		be necessary. Keep
		sealing baths covered whenever possible.		
Respiratory Protection When respiratory protection is required, use a NIOSH approved ai				
		purifying respirator equipped with a combination high efficiency filter and		
acid gas canister. For emergency and other conditions where expos				
		limits may be greatly exce		
	contained breathing apparatus or positive-pressure air line with auxiliary		air line with auxiliary	
	self-contained air supply.			
Skin Protection		For brief contact, no precautions other than clean body-covering clothing		
		should be needed. Use chemical resistant gloves, such as nitrile or		
		polychloroprene, when handling chemical products.		
Eye Protection	ye Protection Use safety glasses with side shields or, preferably, chemical goggles.			chemical goggles.

9. Physical and Chemical Properties		
Boiling Point	approx.100°C	
Specific Gravity	1.01 – 1.02	
% Volatiles	96% (water)	
Solubility in Water	Soluble in hot water	
pH	5.3-5.6	
Odor	Vinegar odor	
Form	Liquid	
Color	Yellow	
VOC	None	

10. Stability and Reactivity		
Chemical Stability	Stable under normal storage conditions	
Conditions to Avoid	None	
Incompatibility	Strong oxidizing agents, strong caustic agents	
Hazardous Decomposition	Burning can produce carbon monoxide, carbon dioxide, nitrogen oxides, & sulfur	
Products	dioxide when heated to decomposition.	
Hazardous Polymerization	Will not occur	

11. Toxicological Inform	ation
Results of component toxicity test perform	ned:
Data for Nickel Acetate Tetrahydrate (CAS 6018-89-9)	Acute Toxicity Data: Oral LD50: 350 mg/kg (rat). Oral LD50: 410 mg/kg (mouse).  Chronic effects on humans: Causes damage to the following organ: lungs, skin, nose/sinuses. Carcinogenic effects: Classified 1 (proven for humans) by IARC, 1 (known to be human carcinogen) by NTP, + (proven) by NIOSH, classified A4 (not classifiable for humans or animals) by ACGIH.  Other toxic effects on humans: Very hazardous in case of skin contact (sensitizer), of inhalation (lung irritant, lung sensitizer). Inhalation of this material may cause sensitive individuals to develop eczema and/or asthma.
Data for Solvent Yellow 19	No data available.

12. Ecological Information		
The following properties are ESTIMATED from the	components of the preparations.	
Potential Toxicity:		
Toxicity to scenedesmus subspicatus (EC50)	0.8 mg/l/48H	
Persistence and degradability	ND	
Chemical Oxygen Demand (COD)	ND	
Biochemical Oxygen Demand (BOD)	ND	
Chemical Fate Information	ND	
Note: Inhibition of bacterial flora> 0,0025 mg/l		

## 13. Disposal Considerations Small quantities may be treated in aerobic wastewater treatment systems.

Soluble nickel salts may be treated in aerobic wastewater treatment systems.

Soluble nickel salts may be precipitated with caustic for reclamation or disposal. Note that Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal. Contact a licensed professional waste disposal service to dispose of large quantities of this material

14. Transport Information		
Proper Shipping Name Chemicals, N.O.S., Not D.O.T. Regulated		
UN No.	None	
IATA Class	Not Regulated	
Packing Group	Not applicable	

15. Regulatory Information	1
U.S. Federal Regulations	
TSCA Section 8 (b) Inventory	All components are listed on the TSCA Chemical Inventory
OSHA	Hazardous by definition of Hazard Communications Standard
	(29CFR1910.1200)
SARA Hazard Category	
SARA 302 Components	Nickel acetate
SARA 313 Components	Nickel acetate
SARA 311/312 Hazards	Acute health Hazard, Chronic Health Hazard
CERCLA	Nickel (RQ 100 lbs)
Clean Water Act (CWA) 307	Contains priority pollutant nickel at concentrations greater than 0.1%
State Regulations	
Massachusetts Right To Know	Nickel acetate
Components	
Pennsylvania Right To Know	Nickel acetate
Components	
New Jersey Right To Know Components	Nickel acetate
California Proposition 65 Components	This product contains a chemical known to the State of California to cause
	cancer.
NESHAP	Nickel acetate sealing baths are subject to the compliance requirements of
	NESHAP (National Emission Standard for Hazardous Air Pollutants).
	Sealing baths that contain nickels at concentrations greater than 0.1% are
	subject to the reporting requirements of NESHAP 6W.

HMIS H - 2* F - 0 R - 0
F-0
1 0
D 0
PPE – H

The information in this material safety data sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations & management, and for persons working with or handling this product. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions but does not purport to be all inclusive. Horizons Incorporated shall not be held liable for any damage resulting from handling or from contact with the above product.