MATERIAL SAFETY DATA SHEET

Product Name	nical Product and Company Identification						
Product Code	Ni-I						
CAS Number	Mixture						
Manufacturer's							
Address		404 Enterprise Dr.					
		Lewis Center, OH 43035					
Information Telephone Number		614-842-6606					
Date Prepared		March 3, 2016					
Section II. Composition / Informa							
Component		CAS #	% (Optional)				
Component		043 #					
Nickel		7440-02-0					
Terpineol		8000-41-7					
Section III. Hazards Identification							
		1					
	ription: T Toxic		for an end of the second				
 Information pertaining to particular dangers for man and environment 							
	R 49 May cause cancer by inhalation. R 43 May cause sensitization by skin contact.						
		y skin contac	GI.				
Section IV. Firs							
	After inhalation						
	Supply fresh air. If required, provide artificial respiration. Keep patient warm.						
	iate medical advice	Э.					
 After skin co 							
	Immediately wash with water and soap and rinse thoroughly.						
Seek immediate medical advice.							
 After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. 							
•	-	ninutes under	er running water. I nen consult a doctor.				
After swallowing Seek immediate medical advice.							
	Fighting Measure						
	inguishing agent						
		fire-fighting m	measures that suit the surrounding fire.				
	Protective equipment:						
	Wear self-contained respirator.						
	otective imperviou						
	idental Release N						
	ed safety precautio						
	tive equipment. Ke	ep unprotecte	ted persons away.				
	uate ventilation.	_					
Measures for environmental protection:							
	Do not allow material to be released to the environment without proper governmental permits.						
	r cleaning/collectin						
		as waste acc	cording to item 13.				
	uate ventilation.						
A -1 -1 +1 +	formation:						
See Section	7 for information o						
See Section See Section		n personal pr	ing. rotection equipment.				

Section VII. Handling and Storage + Handling

- Information for safe handling: Keep container tightly sealed.
 Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace.
 Open and handle container with care.
- Information about protection against explosions and fires: No special measures required
- Storage
 - Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Do not store with acids or oxidizing agents.
- Further information about storage conditions:
 - This product is hygroscopic.

Protect from carbon dioxide.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

Store under lock and key and with access restricted to technical experts or their assistants only.

Section VIII. Exposure Controls and Personal Protection

- Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
- Components with limit values that require monitoring at the workplace:

Component	Limit Values (mg/m ³)	
	NIOSH REL	OSHA PEL
Nickel, elemental & inorganic compounds as Ni	0.015	1

Additional information: No data

- Personal protective equipment
- General protective and hygienic measures
 The usual precautionary measures for handling chemicals should be followed.
 Keep away from foodstuffs, beverages and feed.
 Remove all soiled and contaminated clothing immediately.
 Wash hands before breaks and at the end of work.
 Store protective clothing separately.
- Breathing equipment:
- Use suitable respirator when high concentrations are present.
- Protection of hands: Impervious gloves
- Eye protection: Safety glasses
- Body protection: Protective work clothing

Section IX. Physical and Chemical Properties

Form: Paste ٠ ٠ Color: Grav Odor: Not determined ٠ Melting point/Melting range: Not determined ٠ Boiling point/Boiling range: Not determined ٠ Flash point: Not applicable ٠ Ignition temperature: Not determined ٠ Decomposition temperature: Not determined ٠ ٠ Danger of explosion: Product does not present an explosion hazard. **Explosion limits:** ٠ ٠ Lower: Not determined Upper: Not determined ٠ Vapor pressure: Not determined ٠ Density: ٠ Not determined Solubility in / Miscibility with Water: Not determined

Section X. Stability and Reactivity

- Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.
- Materials to be avoided: acids, air, carbon dioxide, oxidizing agents
- Dangerous reactions: No dangerous reactions known
- Dangerous products of decomposition: Metal oxide fume

Section XI. Toxicological Information

- Acute toxicity:
- LD50: 400mg/kg in a rat
- LDLo: 5mg/kg in G. pig
- Primary irritant effect:
- on the skin: Prevent skin contact
- on the eye: powder: irritant effect
- Sensitization: sensitization possible through skin contact
- Subacute to chronic toxicity: Nickel and nickel compounds may cause a form of dermatitis known as nickel itch. They may also cause intestinal disorders, convulsions and asphyxia. Airborne nickel contaminated dusts are regarded as carcinogenic to the respiratory tract.
- Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. Do Not Ingest
- Carcinogenicity classification information for *Nickel:* Target organs are: lungs, skin, and nasal cavities. The NIOSH identified cancer sites are lungs and nasal cavities.

Section XII. Environmental Information

- General notes:
 - Do not allow material to be released to the environment without proper governmental permits.

Section XIII. Disposal Information

- Product:
 - Recommendation: Consult state, local or national regulations for proper disposal.
- Uncleaned packagings:
 - Recommendation: Disposal must be made according to official regulations.

Section XIV. Transportation Information

Not a hazardous material for transportation.

- DOT regulations: Hazard class: None
- Land transport ADR/RID (cross-border) ADR/RID class: None
- Maritime transport IMDG: IMDG Class: None
- Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class: None
- Transport/Additional information:

Not dangerous according to the above specifications.

Section XV. Regulatory Information

 Product related hazard information: observe the general safety regulations when handling chemicals. Hazard symbols: T Toxic Risk phrases: 49 May cause cancer by inhalation. 43 May cause sensitization by skin contact. Safety phrases: 53 Avoid exposure - obtain special instructions before use. 45 In case of accident or if you feel unwell, seek medical advice immediately. National regulations

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. This product contains a chemical known to the state of California to cause cancer or reproductive toxicity.

 Information about limitation of use: For use only by technically qualified individuals. This product contains nickel and is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know act of 1986 and 40CFR372.

Section XVI. Other Information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

MSDS Prepared by:

Nexceris, LLC 404 Enterprise Drive Lewis Center, OH 43035

Vendee and third persons assume the risk of injury proximately caused by the material if reasonable safety procedures are not followed as provided for in the data sheet, and vendor shall not be liable for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed.

All persons using this product, all persons working in an area where this product is used, and all persons handling this product should be familiar with the contents of this data sheet. This information should be effectively communicated to employees and others who might come in contact with the product.

While the information accumulated and set forth herein is believed to be accurate as of the date hereof, Nexceris, LLC makes no warrant with respect thereto and disclaims all liability from reliance thereon. Recipients are advised to confirm in advance that the information is current, applicable, and suitable for their particular circumstances.