# **Material Safety Data Sheet**

United States English

Section 1. Chemical product and company identification

Product name	His Mag	His Mag Sepharose™ Ni, 5 x 1 ml					
Catalogue Number	28-9673-90						
Material uses Product type Validation date Print date	Industrial applica Liquid. 24 March 2010 16 June 2010	ations: Analytical chemistr	y. Research. Liquid chromatography.				
Supplier	GE Healthcare U Amersham Place Little Chalfont Buckinghamshira England +44 0870 606 19	e HP7 9NA					
In case of emergency	US Canada	ChemTrec (US) ChemTrec (US)	1-800-424-9300 1-703-527-3887				
2. Hazards iden	tification						
Physical state Odor OSHA/HCS status	Liquid. Sweetish. Slight This material is c		he OSHA Hazard Communication Standard (29 CFR 1910.1200).				
Emergency overview	WARNING! FLAMMABLE LIQUID AND VAPOR. COMBUSTIBLE. CAUSES EYE IRRITATION. MAY CAUSE RESPIRATORY TRACT AND SKIN IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER. Flammable liquid. Irritating to eyes. Moderately irritating to the skin and respiratory system. Keep away from heat, sparks and flame. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Avoid contact with eyes, skin and clothing. Contains material that can cause target organ damage. Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.						
Routes of entry	Dermal contact.	Eye contact. Inhalation. In	gestion.				
Potential acute health effects Eyes Skin	Irritating to eyes. Moderately irrita						
Inhalation Ingestion	Moderately irritating to the respiratory system. No known significant effects or critical hazards.						
Potential chronic health effect Chronic effects Carcinogenicity Mutagenicity Teratogenicity Developmental effects Fertility effects Target organs Inhalation	Contains materic Contains materic No known signifi No known signifi No known signifi Contains materic Contains materic upper respiratory Adverse symptor respiratory tract coughing	cant effects or critical haz cant effects or critical haz cant effects or critical haz cant effects or critical haz al which causes damage t al which may cause dama y tract, skin, eyes, central ms may include the follow irritation	<ul> <li>Risk of cancer depends on duration and level of exposure.</li> <li>ards.</li> <li>ards.</li> <li>ards.</li> <li>ards.</li> <li>o the following organs: kidneys.</li> <li>ge to the following organs: blood, the reproductive system, liver, nervous system (CNS).</li> </ul>				
Ingestion	No specific data.						
		Article Number	Page: 1/8				
lee		28967390	Validation date 24 March 2010				





Validation date 24 March 2010 Version 1

Skin	Adverse symptoms may include the following: irritation redness
Eyes	Adverse symptoms may include the following: pain or irritation watering redness
Medical conditions aggravated by	Pre-existing disorders involving any target organs n

over-exposure

Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

3.	Composition/information on ingredients				
<u>Name</u>		CAS number	<u>% by weight</u>		
Ethanol		64-17-5	14 - 19		
Nickel		7440-02-0	0.12		
Mag Sepha	rose (highly cross-linked agarose with Magnetite)	9012-36-6/	-		
		1317-61-9			

#### Section 4. First aid measures

Eye contact	In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if irritation occurs.
Skin contact	Wash with soap and water. Get medical attention if irritation develops.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms appear.
Ingestion	Do not ingest. Get medical attention if symptoms appear.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

## Section 5. Fire-fighting measures

Flammability of the product	Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.			
Extinguishing media				
Suitable Not suitable	Use dry chemical, CO₂, water spray (fog) or foam. Do not use water jet.			
Special exposure hazards	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.			
Hazardous combustion products	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides			
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.			
Special remarks on fire hazards	Use an extinguishing agent suitable for the surrounding fire.			

#### Section 6. Accidental release measures

Personal precautions	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods for cleaning up	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.
Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.



Article Number

28967390



Page: 2/8 Validation date 24 March 2010 Version 1

# Section 7. Handling and storage

Handling	Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
Storage	Store between the following temperatures: 4 to 30°C (39.2 to 86°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

Product name	Exposure limits				
Ethanol	ACGIH TLV (United States, 1/2009). Notes: 1996 Adoption Refers to Appendix A				
	Carcinogens.				
	STEL: 1000 ppm 15 minute(s). NIOSH REL (United States, 6/2008).				
	TWA: 1900 mg/m <sup>3</sup> 10 hour(s).				
	TWA: 1000 ppm 10 hour(s).				
	OSHA PEL (United States, 11/2006).				
	TWA: 1900 mg/m³ 8 hour(s).				
	TWA: 1000 ppm 8 hour(s).				
	OSHA PEL 1989 (United States, 3/1989).				
	TWA: 1900 mg/m <sup>3</sup> 8 hour(s).				
Nickel	TWA: 1000 ppm 8 hour(s). ACGIH TLV (United States, 1/2009). Notes: Refers to Appendix A Carcinogens.				
Nickel	Inhalable fraction. See Appendix C, paragraph A. Inhalable Particulate Mass TLVs				
	(IPM-TLVs) for those materials that are hazardous when deposited anywhere in				
	the respiratory tract. 1998 Adoption.				
	TWA: 1.5 mg/m <sup>3</sup> 8 hour(s). Form: Metallic form				
	NIOSH REL (United States, 6/2008). Notes: as Ni				
	TWA: 0.015 mg/m³, (as Ni) 10 hour(s).				
	OSHA PEL (United States, 11/2006). Notes: as Ni				
	TWA: 1 mg/m <sup>3</sup> , (as Ni) 8 hour(s).				
	<b>OSHA PEL 1989 (United States, 3/1989). Notes: as Ni</b> TWA: 1 ma/m <sup>3</sup> . (as Ni) 8 hour(s).				
Recommended monitoring	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures				
procedures	and/or the necessity to use respiratory protective equipment.				
Engineering measures	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering				
5 5	controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.				
	The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive				
11	limits. Use explosion-proof ventilation equipment.				
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove				
	potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash				
	stations and safety showers are close to the workstation location.				
Personal protection					
	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk				
Respiratory	assessment indicates this is necessary. Respirator selection must be based on known or anticipated				
	exposure levels, the hazards of the product and the safe working limits of the selected respirator.				
	Recommended: A respirator is not needed under normal and intended conditions of product use.				
Hands	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times				
	when handling chemical products if a risk assessment indicates this is necessary. 1-4 hours (breakthrough				
Files	time): butyl rubber, neoprene Sefatu avgwags camplying with an approved standard should be used when a rick assessment indicates				
Eyes	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: safety glasses with				
	side-shields				
Skin	Personal protective equipment for the body should be selected based on the task being performed and the				
	risks involved and should be approved by a specialist before handling this product.				
	Recommended: lab coat				
Environmental exposure	Emissions from ventilation or work process equipment should be checked to ensure they comply with the				
controls	requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.				
	הוסטוויבטנטרוש נט גווב איטבשש בעטוארוברג אווי אב הבכבשטוא נט דבטטבע פורוושטטרש נט עכבאנטאע ופעפוג.				
	Article Number Page: 3/8				



28967390



Validation date 24 March 2010

Personal protective equipment (Pictograms)



## Section 9. Physical and chemical properties

Physical state	Liquid.
Flash point	Closed cup: 38 to 43°C (100.4 to 109.4°F)
Color	solution : Colorless. / Suspension. : Blue. Green.
Odor	Sweetish. Slight Alcohol-like.
Volatility	14 to 19% (w/w)
Odor threshold	180 ppm: Calculated value for the mixture
VOC	14 to 19 % (w/w) [ISO 11890-1]
Ionicity (in water)	Non-ionic.
Solubility	Easily soluble in the following materials: cold water and hot water.

## Section 10. Stability and reactivity

Stability	The product is stable.
Conditions to avoid	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Avoid exposure – obtain special instructions before use.
Materials to avoid	Reactive or incompatible with the following materials: oxidizing materials
Hazardous polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions of reactivity	Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. Non-flammable in the presence of the following materials or conditions: shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture. Use an extinguishing agent suitable for the surrounding fire. Not considered to be a product presenting a risk of explosion.

## Section 11. Toxicological information

Acute toxicity									
Product/ingredient name		Result		Speci	es	Dose	1	Exposure	
Ethanol		LD50 Intra-	arterial	Rat		11 mg/kg	-		
		LD50 Intrap	eritoneal	Rat		3600 ug/kg		-	
		LD50 Intrav	enous	Rat		1440 mg/kg		-	
		LD50 Oral		Rat		7 g/kg		-	
		LDLo Dermo	al	Rabb	it	20 g/kg -			
		TDLo Intrac	erebral	Rat		363.6 ug/kg		-	
		TDLo Intrac		Rat		106 ug/kg		-	
		TDLo Intrap	eritoneal	Rat		500 mg/kg		-	
		TDLo Oral		Rat		6 g/kg -			
		TDLo Oral		Rat		0.72 g/kg -			
		TDLo Oral		Rat		0.5 g/kg -			
		TDLo Oral		Rat		10 mL/kg		-	
		TDLo Oral		Rat		5 mL/kg		-	
		TDLo Oral		Rat		6000 mg/kg		-	
		TDLo Oral		Rat		5000 mg/kg		-	
		TDLo Oral		Rat		4300 mg/kg		-	
		LC50 Inhala	tion Gas.	Rat		20000 ppm		10 hours	
Conclusion/Summary	Not available.								
<u>Classification</u>									
Product/ingredient name		ACGIH	IARC		EPA	NIOSH	NTP	OS	НА
Ethanol		A3	1		-	-	-	-	
Nickel		A5	2B		-	+	Possible	-	



Article Number 28967390



## Section 12. Ecological information

No known significan

Environmental effects
Aquatic ecotoxicity

dient name Product/in

Product/	ingredient	r
Ethanol		

Test	Result	Species	Exposure
-	Acute EC50 >100	Daphnia - Water flea	48 hours
	ppm Fresh water	- Daphnia magna -	
_	Acute EC50 2000	<24 hours Daphnia - Water flea	48 hours
-	ug/L Fresh water	- Daphnia magna	40 110015
-	Acute LC50 5680 to	Daphnia - Water flea	48 hours
	7392 mg/L Fresh	- Daphnia magna -	
_	water Acute LC50 13 to 16	Neonate - <24 hours Fish - Rainbow	96 hours
	ml/L Fresh water	trout,donaldson trout	50 110 010
		- Oncorhynchus	
	Acute LC50	mykiss - 0.8 g Fish - Fathead	96 hours
-	14200000 to	minnow -	90 HOUIS
	15100000 ug/L Fresh	Pimephales	
	water	promelas - 30 days -	
	Acute LC50	19.4 mm - 0.099 g Fish - Fathead	96 hours
-	13480000 ug/L Fresh	minnow -	90 110015
	water	Pimephales	
		promelas - Juvenile	
		(Fledgling, Hatchling, Weanling) - 4 to 8	
		weeks - 1.1 to 3.1 cm	
-	Acute LC50	Fish - Bleak -	96 hours
	11000000 ug/L Marine water	Alburnus alburnus - 8 to 10 cm	
	Acute LC50	Fish - Bleak -	96 hours
	1000000 to	Alburnus alburnus -	
	11500000 ug/L	8 cm	
	Marine water Acute LC50 6772000	Daphnia - Water flea	48 hours
	ug/L Fresh water	- Ceriodaphnia dubia	
		- Neonate	(0)
	Acute LC50 6386000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia	48 hours
	ug/Erresh water	- Neonate	
	Acute LC50 6325000	Daphnia - Water flea	48 hours
	ug/L Fresh water	- Ceriodaphnia dubia	
	Acute LC50 6076000	- Neonate Daphnia - Water flea	48 hours
	ug/L Fresh water	- Ceriodaphnia dubia	
		- Neonate	1.0.1
	Acute LC50 5577000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia	48 hours
	ug/Linesh water	- Neonate	
	Acute LC50 3715000	Daphnia - Water flea	48 hours
	to 4432000 ug/L	- Ceriodaphnia dubia	
	Fresh water Acute LC50 >100000	- Neonate Fish - Fathead	96 hours
	ug/L Fresh water	minnow -	50 110015
	•	Pimephales	
		promelas - Juvenile (Fledgling, Hatchling,	
		Weanling) - 0.2 to 0.5	
		g	
	Acute LC50 42000 ug/L Fresh water	Fish - Rainbow trout,donaldson trout	4 days
	ug/L mesh water	- Oncorhynchus	
		mykiss	
	Acute LC50 25500	Crustaceans - Brine	48 hours
	ug/L Marine water	shrimp - Artemia franchiscana -	
		LARVAE	
	Chronic NOEC < 6.3	Daphnia - Water flea	48 hours
	g/L Fresh water Acute EC50 1000	- Daphnia magna Daphnia - Water flea	48 hours
-	ua/L Marine water	- Daphnia - Water nea	

Nickel



Article Number

ug/L Marine water

Acute IC50 >10.1

mg/L Marine water

Acute IC50 9.4 mg/L

- Daphnia magna -<24 hours Crustaceans -

Amphipod -Ampelisca abdita

Crustaceans -

28967390



Page: 5/8

Validation date 24 March 2010

48 hours

48 hours

				20-
	Marine water	Amphipod - Ampelisca abdita		
-	Acute IC50 2.86 mg/L Marine water	Crustaceans - Amphipod -	48 hours	
-	Acute IC50 0.72 mg/L Marine water	Ampelisca abdita Crustaceans - Opossum shrimp -	48 hours	
_	Acute IC50 0.61 mg/L	Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling) - <48 hours	48 hours	
	Marine water	Opossum shrimp - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling) - <48 hours		
-	Acute IC50 0.31 mg/L Marine water	Opossum shrimp - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling) - <48 hours	48 hours	
-	Acute LC50 47.5 ng/L Fresh water	Fish - Indian catfish - Heteropneustes fossilis	96 hours	
-	Acute LC50 13.7 ppm Fresh water	Morone americana	96 hours	
-	Acute LC50 10.4 ppm Fresh water Acute LC50 8 ppm	Fish - common carp - Cyprinus carpio Fish - Pumpkinseed -	96 hours 96 hours	
-	Fresh water Acute LC50 6.3 ppm	Lepomis gibbosus Fish - Striped bass -	96 hours	
-	Fresh water Acute LC50 2.3 ppm Fresh water	Morone saxatilis Fish - common carp - Cyprinus carpio -	96 hours	
		Juvenile (Fledgling, Hatchling, Weanling) - 6 cm		
-	Acute LC50 1.64 ppm Fresh water	Fish - common carp - Cyprinus carpio - Juvenile (Fledgling, Hatchling, Weanling) - 6 cm	96 110015	
-	Acute LC50 1.54 ppm Fresh water	Fish - common carp - Cyprinus carpio - Juvenile (Fledgling, Hatchling, Weanling) - 3.5 cm	96 hours	
-	Acute LC50 1.3 ppm Fresh water	Fish - common carp - Cyprinus carpio - Juvenile (Fledgling, Hatchling, Weanling) - 3.5 cm	96 hours	
-	Acute LC50 100000 to 330000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon	48 hours	
-	Acute LC50 9280 ug/L Marine water	Crustaceans - Greasyback shrimp - Metapenaeus ensis	48 hours	
-	Acute LC50 8850 ug/L Marine water	Crustaceans - Greasyback shrimp - Metapenaeus ensis - Post-larvae	48 hours	
-	Acute LC50 >5400 ug/L Marine water	Fish - Sheepshead minnow - Cyprinodon variegatus	96 hours	
-	Acute LC50 1280 ug/L Marine water	Crustaceans - Greasyback shrimp - Metapenaeus ensis	48 hours	

Conclusion/Summary

Not available.

Biodegradability

**Product/ingredient name** Ethanol

Conclusion/Summary

Not available.



Article Number

28967390

Test

-



Result

days

100 % - Readily - 20

Dose

-

Page: 6/8 Validation date 24 March 2010 Version 1

Inoculum

Octanol/water partition coefficient	Not applicable. (Suspension.)
Toxicity of the products of biodegradation	The product itself and its products of degradation are not toxic.
Other adverse effects	No known significant effects or critical hazards.

## Section 13. Disposal considerations

Waste disposal	The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental products are any environmental local with a the structure disposal of disposal of products and the structure disposal of environmental disposal local with the requirements. Avoid disposal of the structure disposal of the structure disposal contractor.
Waste stream	protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Code: D001 Classification: Ignitability

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

#### Section 14. Transport information

#### International transport regulations

Not classified.

<u>Remarks</u>

IATA Special Provision A 58 - Aqueous solutions containing 24% or less alcohol by volume is not subject to these regulations.

#### Section 15. Regulatory information

HCS Classification	Combustible liquid Irritating material Carcinogen Target organ effects		
U.S. Federal regulations	United States inventory (TSCA 8b): All components are listed	l or exempted.	
	SARA 302/304/311/312 extremely hazardous substances: I SARA 302/304 emergency planning and notification: No pr SARA 302/304/311/312 hazardous chemicals: Ethanol SARA 311/312 MSDS distribution - chemical inventory - ha Immediate (acute) health hazard, Delayed (chronic) health ha	oducts were found. <b>zard identification</b> : Ethanol	l: Fire hazard,
	Clean Water Act (CWA) 307: Nickel		
	Clean Water Act (CWA) 311: No products were found.		
	Clean Air Act (CAA) 112 accidental release prevention: No	products were found.	
	Clean Air Act (CAA) 112 regulated flammable substances:	No products were found.	
	Clean Air Act (CAA) 112 regulated toxic substances: No pro	ducts were found.	
SARA 313			
	Product name	CAS number	<b>Concentration</b>
Form R - Reporting requirements	Nickel	7440-02-0	0.12
Supplier notification	Nickel	7440-02-0	0.12
	not be detached from the MSDS and any copying and redistribution tached to copies of the MSDS subsequently redistributed.	of the MSDS shall include c	opying and
State regulations	Connecticut Carcinogen Reporting: None of the component Connecticut Hazardous Material Survey: None of the comp Florida substances: None of the components are listed.		

-	Connecticut Hazardous Material Survey: None of the components are listed.	
	Florida substances: None of the components are listed.	
	Illinois Chemical Safety Act: None of the components are listed.	
	Illinois Toxic Substances Disclosure to Employee Act: None of the components are	isted.
	Louisiana Reporting: None of the components are listed.	
	Louisiana Spill: None of the components are listed.	
	Massachusetts Spill: None of the components are listed.	
	Massachusetts Substances: The following components are listed: ETHYL ALCOHOL	
	Michigan Critical Material: None of the components are listed.	
	Minnesota Hazardous Substances: None of the components are listed.	
	New Jersey Hazardous Substances: The following components are listed: ETHYL ALC	OHOL; NICKEL
	New Jersey Spill: None of the components are listed.	
	New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.	
	New York Acutely Hazardous Substances: The following components are listed: Nick	el
	New York Toxic Chemical Release Reporting: None of the components are listed.	
	Article Number	Page: 7/8



Article Number

28967390

Validation date 24 March 2010

28-9673-90

	Pennsylvania RTK Hazardous Substances: The following components are listed: DENATURED ALCOHOL; NICKEL Rhode Island Hazardous Substances: None of the components are listed. WARNING: This product contains a chemical known to the State of California to cause cancer.			
Ingredient name	<u>Cancer</u>	<b>Reproductive</b>	<u>No significant risk level</u>	Maximum acceptable
Nickel	Yes.	No.	No.	<u>dosage level</u> No.
United States inventory (TSCA 8b)	All components are listed or exempted.			
EU regulations				
Risk phrases	R10- Flammable.			
International regulations				
International lists	Australia inventory (AIC China inventory (IECSC): Japan inventory: Not de Korea inventory: All com New Zealand Inventory Philippines inventory (PI	All components are list termined. ponents are listed or ex of Chemicals (NZIOC): A	ed or exempted. kempted. All components are listed or exe	empted.

## Section 16. Other information

Label requirements

FLAMMABLE LIQUID AND VAPOR. COMBUSTIBLE. CAUSES EYE IRRITATION. MAY CAUSE RESPIRATORY TRACT AND SKIN IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER.

Hazardous Material Information System (U.S.A.)

Health	2
Flammability	3
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.



To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



Article Number 28967390 Page: 8/8 Validation date 24 March 2010