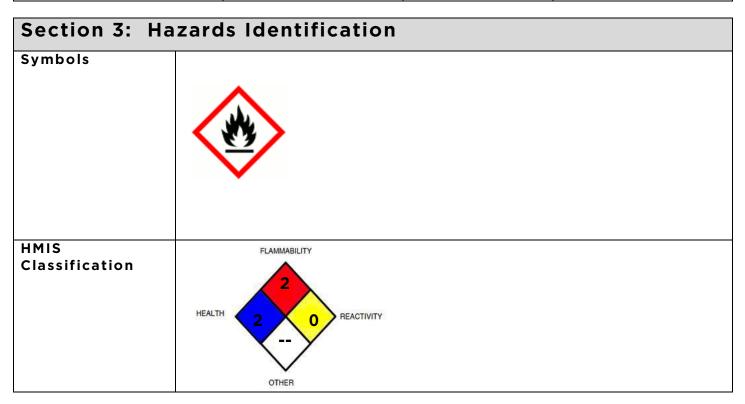


# Safety Data Sheet

Section 1: Product & Company Identification		
Product Name:	Nickel-Chelated Agarose 4B-CL	
Product #:	N-2749	
Synonyms:	-	
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego CA 92131 Tele# + 858-452-9925	
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585	

Section 2: Composition / Information on Ingredients			
Component	CAS#	EC #	% Composition
Ethanol	61-17-5	200-578-6	≤20





NFPA	FLAMMABILITY
Classification	HEALTH 2 0 OTHER

# Section 4: First Aid Measures

General	Consult a physician if symptoms are severe or persistent. Provide this data
Overview:	sheet to medical personnel. If product is spilled or leaked, evacuate area.
Inhalation:	If inhaled, move person to fresh air and monitor breathing. If not breathing,
	give artificial ventilation. Consult a physician if symptoms are severe or
	persistent.
Skin:	Immediately wash with excess soap and water. If spilled on clothing, remove
	all affected clothing. Consult a physician if symptoms are severe or persistent.
Eyes:	Flush eyes with water or eye wash solution as a precaution for 15 minutes.
	Consult a physician if symptoms are severe or persistent.
Ingestion:	Only induce vomiting if recommended by medical personnel. If subject is
	unconscious, do not give anything by mouth. If conscious, rinse mouth with
	water. Consult a physician if symptoms are severe or persistent.
	See section 11 for more detailed information on health effects & symptoms.

SECTION 5:	Fire Fighting Measures
Flammability of the product:	Combustible. Forms explosive mixture with air at elevated temperatures.
Extinguishing Media:	Water spray, alcohol-resistant foam, dry chemical, and carbon dioxide extinguishers are suitable.
Hazardous thermal (de)composition products:	May develop hazardous gases upon combustion.
Special Fire Fighting Procedures:	Wear protective gear, such as self-contained breathing apparatus, if necessary.
Flash Point:	No data available

# Section 6: Accidental Release Measures

Personal	Provide suitable ventilation. Use any necessary personal protective equipment.
Precautions:	Avoid contact with skin and eyes and avoid creation and inhalation of vapor or
	dust. Keep all unnecessary personnel away.



Environmental	Prevent product from entering public sewers and waterways.
Precautions:	
Methods for	Use inert absorbent material to absorb any spilled or leaked product. Keep in
Clean-up:	suitable, closed containers for disposal.

### **SECTION 7: Handling & Storage**

Storage:	Store upright, in closed container in arid, ventilated environment. Storage temperature: 2 - 8°C
Handling:	Provide suitable ventilation. Wear any necessary personal protective equipment. Keep away from open flames, hot surfaces, and sources of ignition. Use spark-proof tools and explosion-proof equipment.

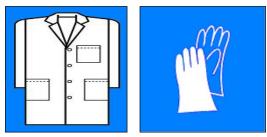
### **SECTION 8:** Exposure controls / Personal Protection

4000

Use only approved respirators and components which comply with CDC and NIOSH (US) or CEN (EU) regulations. Required only when vapors or aerosols are created.

#### Skin and Body:

**Respiratory Protection:** 



Use gloves when handling product. Inspect gloves before use to ensure suitability for use. Remove without exposing skin to the gloves outer surface. Discard used gloves according to all pertinent laws and/or current good practices (cGXP). Wash hands with soap and water.

Wear appropriate clothing. Ensure clothing is in good condition, with no holes or tears. When selecting clothing, consider the concentration and amount of substance to be handled.

Eyes:



	Use only government-approved safety glasses with side-shields.
Ventilation/Engineering	Prevent product from entering the environment, especially through
Measures:	public sewers or waterways.
Hygiene:	Handle in accordance with good industrial hygiene and safety practice.
Other:	Ethanol; CAS-No.: 64-17-5 TWA: 1,000.000000 ppm. Basis: USA. ACGIH Threshold Limit Values (TLV). Remarks: Upper Respiratory Tract irritation, Confirmed animal carcinogen with unknown relevance to humans. TWA: 1,000 ppm, 1,900 mg/m3. Basis: USA. OSHA - TABLE Z-1 Limits for Air Contaminants -1910.1000. TWA: 1,000 ppm, 1,900 mg/m3. Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants. Remarks: The value in mg/m3 is approximate. TWA: 1,000.000000 ppm, 1,900.000000 mg/m3. Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants. Remarks: The value in mg/m3 is approximate. TWA: 1,000.000000 ppm, 1,900.000000 mg/m3. Basis: USA. NIOSH Recommended Exposure Limits. STEL: 1,000.000000 ppm. Basis: USA. ACGIH Threshold Limit Values (TLV). Remarks: Upper Respiratory Tract irritation. Confirmed animal carcinogen with unknown relevance to humans.

SECTION 9: Physical and Chemical Properties		
Appearance &	Liquid suspension	
Odor:		
Formula	N/A	
Molecular Wt.	N/A	
Melting Pt.	No data available	
Boiling Pt.	No data available	
Density:	No data available	
Vapor Pressure:	No data available	
<b>Evaporation Rate:</b>	No data available	
Vapor Density:	No data available	
Solubility:	No data available	
Flash Point:	No data available	
Autoignition	No data available	
Temp:		



#### **SECTION 10:** Stability and Reactivity

Stability:	Product is stable when stored and used as recommended.
Hazardous	Flammable gases may be formed when in contact with transition-metal
decomposition	oxides, strong acids and their salts, ethylene oxide, chromyl chloride,
products:	diatomic halogens, strong agents, alkali oxides, and alkali and alkaline
	earth metals.
Materials to Avoid:	Strong oxidizing agents are incompatible with this product.
Conditions to avoid:	Avoid all possible sources of ignition (spark or flame).

SECTION 11: Toxicological Information		
RTECS#:	N/A	
ACUTE Toxicity:	LD50 Oral = 6.2 g/kg (Rat, Ethanol) LD50 Inhalation = 95.6 mg/L (Rat, 4h, Ethanol)	
CHRONIC Toxicity:	N/A	
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	<ul> <li>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.</li> <li>AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH.</li> <li>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP.</li> <li>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by NTP.</li> <li>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA.</li> <li>EPA: No classification on carcinogenic data is available from EPA</li> </ul>	

#### **SECTION 12: Ecological Information Ecotoxicity:** Aquatic toxicity: Species: Fathead Minnow (Pimephales promelas). Exposure: 96 hours. Result: LC50 14,200 mg/L Species: Water Flea (Ceriodaphnia dubia). Exposure: 48 hours. Result: LC50 5,012 mg/L Species: Water Flea (Daphnia magna). Exposure: 9 days. Result: NOEC 9.6 mg/L Species: Fresh Water Algae (Chlorella vulgaris). Exposure: 72 hours. Result: EC50 275 mg/L No data available Mobility: Persistence and No data available degradability:



Bioaccumulative potential:	No data available
Other adverse effects:	No data available
Corrosivity Characteristic:	No data available
General Notes:	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Residue Waste or Unused product:	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult and adhere to local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
Contaminated Packaging:	Packaging should be disposed of in the same manner as unused product.

SECTION 14: Transportation Information	
UN ID#:	N/A
ADR / RID (LAND):	Not regulated
DOT regulations:	Not regulated
IMDG/IMO (SEA):	Not regulated
IATA/DGR (AIR):	Not regulated
Special Provisions:	N/A

SECTION 15: Reg	gulatory Information
Health Phrases:	H226 - Flammable liquid and vapor.
Risk Phrases:	<ul> <li>P210 - Keep away from heat, hot surfaces, open flames, and other ignition sources. No smoking.</li> <li>P242 - Use only non-sparking tools.</li> <li>P243 - Take precautionary measures against static discharge.</li> <li>P280 - Wear protective gloves/clothing/eye protection/face protection.</li> <li>P303+361+353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed.</li> </ul>
Safety Phrases:	N/A
EU Regulations:	N/A
US Regulations:	TSCA: Not listed California Proposition 65: No products were found Massachusetts State Right to Know: Ethanol (CAS 64-17-5) New Jersey State Right to Know: Ethanol (CAS 64-17-5) Pennsylvania State Right to Know: Ethanol (CAS 64-17-5)



U.S. Federal	SARA 302/304 emergency planning and notification: No products were
Regulations:	found.
	SARA 311/312 MSDS distribution-chemical inventory-hazard identification: Fire Hazard
	SARA 313 toxic chemicals notification and release reporting: No products were found.
	Clean Water Act (CWA) 307: No products were found.
	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 products were found.
	OSHA: Flammable Liquids (Cat. 2)
WHMIS (Canada):	N/A

# **SECTION 16: Other Information**

**LIABILITY STATEMENT:** The above information is believed to be correct but does not purport to be allinclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.