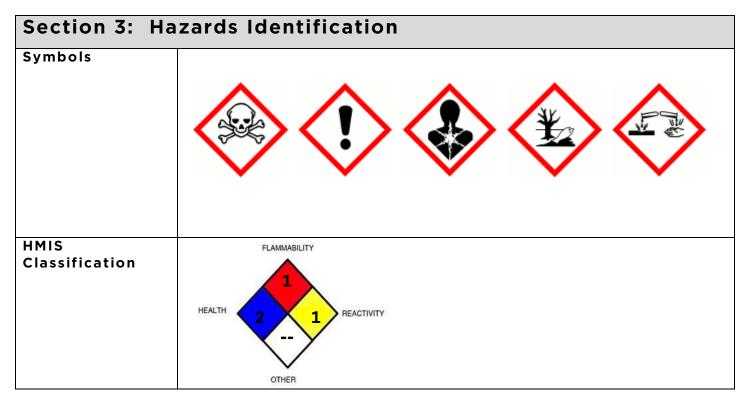


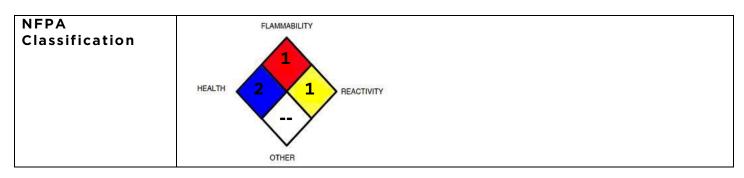
Safety Data Sheet

Section 1: Product & Company Identification		
Product Name:	EDAC Hydrochloride	
Product #:	E-2042	
Synonyms:	EDAC HCI; EDCI; EDAC; EDC; 1-(3-Dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride; N-Ethyl-N'-(3-dimethylaminopropyl)carbodiimide hydrochloride	
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
EDAC Hydrochloride	25952-53-8	247-631-2	≥98







Section 4: First Aid Measures	
General	Treat symptomatically.
Overview:	
Inhalation:	Remove casualty to fresh air and keep warm and at rest. If breathing is
	irregular or stopped, administer artificial respiration. Call a physician.
Skin:	Wash immediately with plenty of water and soap for at least 15 minutes.
	Remove contaminated clothing and shoes. Wash contaminated clothes before
	reuse. Call a physician.
Eyes:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes
	holding eyelids apart. Consult an ophthalmologist.
Ingestion:	Wash out mouth with water provided person is conscious. Call a physician.
	See section 11 for more detailed information on health effects & symptoms.

SECTION 5: Fire Fighting Measures		
Flammability of	Combustible	
the product:		
Extinguishing	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	
Media:		
Hazardous	Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas	
thermal		
(de)composition		
products:		
Special Fire	Wear a self-contained breathing apparatus and chemical protective clothing.	
Fighting	Do not inhale explosion and combustion gases. Collect contaminated fire	
Procedures:	extinguishing water separately. This must not be discharged into drains. Move	
	undamaged containers from immediate hazard area if it can be done safely.	
Flash Point:	No data available	

Section 6: A	Accidental Release Measures
Personal	Wear breathing apparatus if exposed to vapors/dusts/aerosols. Provide
Precautions:	adequate ventilation.



Environmental	Do not allow to enter soil/subsoil. Do not allow to enter surface water or
Precautions:	drains. Ensure all wastewater is collected and treated via a wastewater
	treatment plant.
Methods for	Collect in closed and suitable containers for disposal. Clear contaminated
Clean-up:	areas thoroughly. Ventilate affected area.

SECTION 7:	Handling & Storage
Storage:	Keep dry, keep under inert gas: Nitrogen. Store at 2 – 8°C Warm to Room Temperature before use. Keep away from incompatible substances. Keep container tightly closed when not in use.
Handling:	Avoid contact with skin, eyes, and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling.

SECTION 8: Exposure controls / Personal Protection

Respiratory Protection:



Wear NIOSH/MSHA or European Standard EN 149 approved respirator.

Skin and Body:





Wear compatible chemical-resistant gloves to prevent skin exposure. Wear compatible chemical-resistant gloves and clothing to prevent skin exposure.



Eyes:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA.
Ventilation/Engineering Measures:	Mechanical exhaust required. Safety shower and eye shower.
Hygiene:	Handle in accordance with good industrial hygiene and safety practice.
Other:	Wash contaminated clothing before reuse. Wear appropriate protective clothing to prevent exposure.

SECTION 9: Physical and Chemical Properties		
Appearance &	White powder	
Odor:		
Formula	C ₈ H ₁₇ N ₃ • HCl	
Molecular Wt.	191.7	
Melting Pt.	110°C	
Boiling Pt.	No data available	
Density:	No data available	
Vapor Pressure:	< 1.3 hPa at 20°C	
Evaporation Rate:	No data available	
Vapor Density:	No data available	
Solubility:	Water	
Flash Point:	No data available	
Autoignition	No data available	
Temp:		

SECTION 10: Stability and Reactivity		
Stability:	Stable under recommended storage conditions.	
Hazardous decomposition products:	Nitrogen oxides (NOx), carbon dioxide (CO2), hydrogen chloride (HCl), carbon monoxide	
Materials to Avoid:	Strong oxidizers, strong acids	
Conditions to avoid:	Incompatible materials	



SECTION 11: Toxicological Information		
RTECS#:	FF2200000	
ACUTE Toxicity:	LD50 Oral = 500 mg/kg (rat) LD50 Inhalation = 600 mg/L (rat)	
CHRONIC Toxicity:	N/A	
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	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. 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. 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. 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. EPA: No classification on carcinogenic data is available from EPA	

SECTION 12: Ecological Information		
Ecotoxicity:	Very toxic to aquatic life, long-term effects.	
	EC50 - Daphnia magna (Water flea) - 0.41 mg/l - 48 h	
Mobility:	No data available	
Persistence and	Aerobic Chemical oxygen demand - Exposure time 28 d Result: - Not	
degradability:	readily biodegradable.	
Bioaccumulative	No data available	
potential:		
Other adverse	No data available	
effects:		
Corrosivity	No data available	
Characteristic:		
General Notes:	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.	

SECTION 13: Disposal Considerations		
Residue Waste or Unused product:	Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and Exhaust air. Dispose of waste according to laws applicable.	
Contaminated Packaging:	Dispose of as unused product.	



SECTION 14: Transportation Information		
UN ID#:	2811	
ADR / RID (LAND):	UN# 2811	
	Class: 6.1	
	Packaging Group: III	
	Proper Shipping Name: Toxic solid, organic, n.o.s. (1-(3-	
	Dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride)	
DOT regulations:	UN# 2811	
	Class: 6.1	
	Packaging Group: III	
	Proper Shipping Name: Toxic solid, organic, n.o.s. (1-(3-	
	Dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride)	
IMDG/IMO (SEA):	UN# 2811	
	Class: 6.1	
	Packaging Group: III	
	Proper Shipping Name: Toxic solid, organic, n.o.s. (1-(3-	
	Dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride)	
IATA/DGR (AIR):	UN# 2811	
	Class: 6.1	
	Packaging Group: III	
	Proper Shipping Name: Toxic solid, organic, n.o.s. (1-(3-	
	Dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride)	
Special Provisions:	N/A	

SECTION 15: Regulatory Information		
Health Phrases:	H302 Harmful if swallowed. H311 Toxic in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.	
Risk Phrases:	P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection.	
Safety Phrases:	P302+P352 IF ON SKIN: Wash with plenty of soap and water. P304+P340 IF INHALED: Remove casualty to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Remove contact lenses, if possible. P273 Avoid release to the environment.	



	P308+P313 IF exposed or concerned: Get medical advice/attention.
EU Regulations:	EINECS: Listed
US Regulations:	TSCA: Listed
	California Proposition 65: No products were found
	Pennsylvania State Right to Know: Listed
	New Jersey State Right to Know: Listed
U.S. Federal	SARA 302/304 emergency planning and notification: No products were
Regulations:	found.
	SARA 311/312 MSDS distribution-chemical inventory-hazard
	identification: No products were found.
	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: Acute toxicity, oral (Cat. 4); Acute toxicity, dermal (Cat. 3); Skin
	irritation (Cat. 2); Serious eye damage (Cat. 1); Skin sensitization (Cat. 1);
	Specific target organ toxicity - repeated exposure, oral - stomach, large
	intestine, lymph node (Cat. 2); Short-term aquatic hazard (Cat. 1); Long-
	term aquatic hazard (Cat. 1)
WHMIS (Canada):	DSL: Listed

SECTION 16: Other Information

LIABILITY STATEMENT: The above information is believed to be correct but does not purport to be all-inclusive 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.