

SAFETY DATA SHEET

Revision Date 08/04/2023

PROD	UCT AND COMPANY IDENTIFIC			
		ATION		
	Product identifiers			
	Product name	: EDC·HCI		
		: RC8102		
	Product Number			
	Brand	: Advanced ChemTech		
	CAS-No.	: 25952-53-8		
		e substance or mixture and uses advised against		
	Identified uses	: Laboratory chemicals, Manufacture of substances		
5	Details of the supplier of the s	afety data sheet		
	Company	: Advanced ChemTech		
	• • • • • • • • • • • • • • • • • • •	5609 Fern Valley Rd, Louisville, KY 40228 USA		
	Telephone	: +1 833-317-5620		
	Fax	: +1 502-968-1000		
	Emergency telephone number	: +1 800-424-9300 Chemtrec		
	RDS IDENTIFICATION			
NAZAI				
	Classification of the substance or mixture:			
	GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)			
	Acute toxicity, Oral (Category 4)	, H302		
	Acute toxicity, Dermal (Category	y 3), H311		
	Skin irritation (Category 2), H31			
	Serious eye damage (Category			
	Skin sensitization (Category 1),			
		peated exposure, Oral (Category 2), Stomach, large		
	intestine, lymph node, H373			
	Short-term (acute) aquatic haza	rd (Category 1), H400		
	Long-term (chronic) aquatic haz	ard (Category 1), H410		
		ents mentioned in this Section, see Section 16.		
	GHS Label elements, including			
		g precautional y statements.		
	Pictogram			
		\vee \vee \vee \vee		
	Signal word	Danger		
	Signal word	Danger		
	Hazard statement(s)			
	H302	Harmful if swallowed.		
	H311	Toxic in contact with skin.		
	H315	Causes skin irritation.		
	H317	May cause an allergic skin reaction.		
	H318	Causes serious eye damage.		
	H318 H373	Causes serious eye damage. May cause damage to organs (Stomach, large intestine, lymph node) through prolonged or repeated		
		May cause damage to organs (Stomach, large intestine, lymph node) through prolonged or repeated		
	H373	May cause damage to organs (Stomach, large intestine, lymph node) through prolonged or repeated exposure if swallowed.		
	H373 H410	May cause damage to organs (Stomach, large intestine, lymph node) through prolonged or repeated		
	H373 H410 Precautionary statement(s)	May cause damage to organs (Stomach, large intestine, lymph node) through prolonged or repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects.		
	H373 H410 Precautionary statement(s) P260	May cause damage to organs (Stomach, large intestine, lymph node) through prolonged or repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.		
	H373 H410 Precautionary statement(s) P260 P264	May cause damage to organs (Stomach, large intestine, lymph node) through prolonged or repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling.		
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	H373 H410 Precautionary statement(s) P264 P270	May cause damage to organs (Stomach, large intestine, lymph node) through prolonged or repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product.		
	H373 H410 Precautionary statement(s) P260 P264 P270 P272	May cause damage to organs (Stomach, large intestine, lymph node) through prolonged or repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace.		
	H373 H410 Precautionary statement(s) P260 P264 P270 P272 P273	May cause damage to organs (Stomach, large intestine, lymph node) through prolonged or repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment.		
	H373 H410 Precautionary statement(s) P260 P264 P270 P272 P273 P280	May cause damage to organs (Stomach, large intestine, lymph node) through prolonged or repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.		
	H373 H410 Precautionary statement(s) P260 P264 P270 P272 P273 P280 P301 + P312 + P330	May cause damage to organs (Stomach, large intestine, lymph node) through prolonged or repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.		
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	H373 H410 Precautionary statement(s) P260 P264 P270 P272 P273 P280 P301 + P312 + P330 P302 + P352 + P312	May cause damage to organs (Stomach, large intestine, lymph node) through prolonged or repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.		
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	H373 H410 Precautionary statement(s) P260 P264 P270 P272 P273 P280 P301 + P312 + P330 P302 + P352 + P312 P305 + P351 + P338 + P310 P314	May cause damage to organs (Stomach, large intestine, lymph node) through prolonged or repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to Continue rinsing. Immediately call a POISON CENTER/doctor. Get medical advice/ attention if you feel unwell.		
	H373 H410 Precautionary statement(s) P260 P264 P270 P272 P273 P280 P301 + P312 + P330 P302 + P352 + P312 P305 + P351 + P338 + P310 P314 P333 + P313	May cause damage to organs (Stomach, large intestine, lymph node) through prolonged or repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to Continue rinsing. Immediately call a POISON CENTER/doctor. Get medical advice/ attention if you feel unwell. If skin irritation or rash occurs: Get medical advice/ attention.		
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	H373 H410 Precautionary statement(s) P260 P264 P270 P272 P273 P280 P301 + P312 + P330 P302 + P352 + P312 P305 + P351 + P338 + P310 P314 P333 + P313 P362	May cause damage to organs (Stomach, large intestine, lymph node) through prolonged or repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to Continue rinsing. Immediately call a POISON CENTER/doctor. Get medical advice/ attention if you feel unwell. If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.		
	H373 H410 Precautionary statement(s) P260 P264 P270 P272 P273 P280 P301 + P312 + P330 P302 + P352 + P312 P305 + P351 + P338 + P310 P314 P333 + P313 P362 P391	May cause damage to organs (Stomach, large intestine, lymph node) through prolonged or repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to Continue rinsing. Immediately call a POISON CENTER/doctor. Get medical advice/ attention if you feel unwell. If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. Collect spillage.		
	H373 H410 Precautionary statement(s) P260 P264 P270 P272 P273 P280 P301 + P312 + P330 P302 + P352 + P312 P305 + P351 + P338 + P310 P314 P333 + P313 P362 P391 P405	May cause damage to organs (Stomach, large intestine, lymph node) through prolonged or repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to Continue rinsing. Immediately call a POISON CENTER/doctor. Get medical advice/ attention if you feel unwell. If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. Collect spillage. Store locked up.		
	H373 H410 Precautionary statement(s) P260 P264 P270 P272 P273 P280 P301 + P312 + P330 P302 + P352 + P312 P305 + P351 + P338 + P310 P314 P333 + P313 P362 P391 P405 P501	May cause damage to organs (Stomach, large intestine, lymph node) through prolonged or repeated exposure if swallowed. Very toxic to aquatic life with long lasting effects. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to Continue rinsing. Immediately call a POISON CENTER/doctor. Get medical advice/ attention if you feel unwell. If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. Collect spillage. Store locked up. Dispose of contents/ container to an approved waste disposal plant.		
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Hazardous Components					
Component	Classification	Concentration			
1-(3-(Dimethylamino)propyl)-3-ethyl-carbodiimide hydrochloride					



SAFETY DATA SHEET

	SALETT DATA SHEET				
	Acute Tox. 4; Acute Tox. 3; Skin Irrit. 2; Eye <= 100 %				
	Dam. 1; Skin Sens. 1; STOT RE 2; Aquatic				
	Acute 1; Aquatic Chronic 1; H302, H311,				
	H315, H318, H317, H373, H400, H410 M-				
	Factor - Aquatic Acute:1				
	For the full text of the H-Statements mentioned in this Section, see Section 16.				
4. FIRS	ST AID MEASURES				
4.1	Description of first aid measures				
	General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Consult a physician.				
	If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact: Wash off with soap and plenty of water. Consult a physician. In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.				
	If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.				
4.2	Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the				
	labeling (see section 2.2) and/or in section 11				
4.3	Indication of any immediate medical attention and special treatment needed: No data available				
5. FIRE	FIGHTING MEASURES				
51	Extinguishing media				

5.1

- Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture: Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas
- 5.3 Advice for firefighters: Wear self-contained breathing apparatus for fire fighting if necessary.
- 5.4 Further information: No data available

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions, protective equipment, and emergency procedure: Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
- Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the 6.2 environment must be avoided.
- Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. 6.3 Keep in suitable, closed containers for disposal.
- Reference to other sections: For disposal see section 13. 6.4

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid 7.1 materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 22

- Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature -20 °C Moisture sensitive. Store under inert gas. Storage class (TRGS 510): 6.1C: Combustible, acute 7.2
- toxic Cat.3 / toxic compounds or compounds which causing chronic effects.
- 7.3 Specific end use(s): Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters 8.1

Components with workplace control parameters: Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES Information on basic physical and chamical properties 9.1

a) Appearance	Form: White to Off-White solid
b) Odor	no data available
c) Odor Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	Melting point/range: 105 - 118 °C
f) Initial boiling point and boiling range	no data available
g) Flash point	no data available
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
i) Upper/lower flammability or explosive limits	no data available



9.2

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k) Vapor pressure	no data available
I) Vapor density	no data available
m) Relative density	no data available
n) Water solubility	no data available
 Partition coefficient: n- octanol/water 	no data available
 Auto-ignition temperature 	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties	no data available
t) Oxidizing properties	no data available
Other safety information:	no data available

10. STABILITY AND REACTIVITY

Reactivity: No data available 10.1

- Chemical stability: Stable under recommended storage conditions. 10.2
- Possibility of hazardous reactions: No data available 10.3
- Conditions to avoid: No data available 10.4
- Incompatible materials: Strong oxidizing agents, Strong acids 10.5
- 10.6 Hazardous decomposition products: Other decomposition products - no data available. In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1

Information on toxicological effects Acute toxicity: LD50 Oral - Rat - female - 500 mg/kg (OECD Test Guideline 423)

Inhalation: No data available

- Dermal: LD50 Rat male and female > 200 1,000 mg/kg (OECD Test Guideline 402)
- LD50 Intravenous Mouse 56 mg/kg

Skin corrosion/irritation: Skin - Rabbit; Result: Severe skin irritation (OECD Test Guideline 404)

Serious eye damage/eye irritation: Eyes - Rabbit; Result: Severe eye irritation (OECD Test Guideline 437)

Respiratory or skin sensitization: Local lymph node assay (LLNA) - Mouse; May cause allergic skin reaction. (OECD Test Guideline 429) Germ cell mutagenicity: Rat - male, Result: negative.

Carcinogenicity:

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.

- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
- Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: No data available

Specific target organ toxicity - repeated exposure: No data available

Aspiration hazard: No data available

Additional Information: RTECS: FF2200000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity:

- Toxicity to fish static test LC50 Cyprinus carpio (Carp) 4.6 mg/l 96 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates EC50 Daphnia magna (Water flea) 0.41 mg/l 48 h (ISO 6341)
- Toxicity to bacteria EC50 activated sludge > 347 < 470 mg/l 3 h (OECD Test Guideline 209)
- 12.2 Persistence and degradability: Biodegradability: aerobic Chemical oxygen demand - Exposure time 28 d. Result: - Not readily
- biodegradable. (OECD Test Guideline 301)
- 12.3 Bioaccumulative potential: No data available
- Mobility in soil: No data available 12.4
- Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted 12.5
- 12.6 Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects. No data available

13. DISPOSAL CONSIDERATIONS

- Waste treatment methods 13.1
 - Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US) UN number: 2811 Class: 6.1 Packing group: III Proper shipping name: Toxic solid, organic, n.o.s. (1-(3-(Dimethylamino)propyl)-3-ethylcarbodiimide hydrochloride) Reportable Quantity (RQ): Poison Inhalation Hazard: No IMDG UN number: 2811 Class: 6.1 Packing group: III Proper shipping name: Toxic solid, organic, n.o.s. (1-(3-(Dimethylamino)propyl)-3-ethylcarbodiimide hydrochloride) Marine pollutant : yes ΙΑΤΑ UN number: 2811 Class: 6.1 Packing group: III Proper shipping name: Toxic solid, organic, n.o.s. (1-(3-(Dimethylamino)propyl)-3-ethylcarbodiimide hydrochloride)



SAFETY DATA SHEET

15. REGULATORY INFORMATION

 SARA 302 Components:
 SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

 SARA 313 Components:
 SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

 SARA 311/312 Hazards:
 No SARA Hazards

 Massachusetts Right to Know Components:
 No components are subject to the Massachusetts Right to Know Act.

 Pennsylvania Right to Know Components
 Revision Date

 25952-53-8
 New Jersey Right to Know Components

 EDC·HCl
 CAS-No.
 Revision Date

 25952-53-8
 Revision Date

 25952-53-8
 Revision Date

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. 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. It does not represent any guarantee of the properties of the product. Advanced ChemTech shall not be liable for any damage resulting in the handling or from contact with the above product.