

Safety Data Sheet (SDS)

1. Product and Company Information

Product name: Reagent B (SialoCapper-ID Kit Mega) P/N 241-22340-01
[1-(3-Dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride]

Company name: Shimadzu Corporation

Address: 1 Nishinokyo Kuwabara-cho, Nakagyo-ku, Kyoto 604-8511, Japan

Responsible department:

MALDI Group

Diagnostics Management Department,

Analytical & Measuring Instruments Division

Telephone number: 075-823-1351

Fax number: 075-823-1364

Recommended use and restrictions on use: Research reagent

2. Hazards Identification

GHS classification: Classification of the substance or mixture: Not classified according to GHS classification criteria.

GHS label elements

Pictogram: None

Signal word: None

Hazard statements: Not classified according to GHS classification criteria.

Precautionary statements:

- Prevention: Not applicable
- Response: Not applicable
- Storage: Not applicable
- Disposal: Not applicable

Other hazards: No additional hazard information during processing.

3. Composition / Information on Ingredients

Substance/Mixture: Single substance

Chemical name: 1-(3-Dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride

Synonyms: EDC, ECDI, EDAC

Chemical name	Concentration	Formula	CAS No.	CSCL	ISHL
EDC-HCl	<100%	C ₈ H ₁₈ ClN ₃	25952-53-8	N/A	N/A

Impurities or stabilizing additives: Not applicable

4. First-Aid Measures

General first aid: If you feel unwell, seek medical advice/attention.

If inhaled: Move the person to fresh air and keep at rest in a position comfortable for breathing.

If on skin: Wash skin with plenty of water.

If in eyes: Rinse eyes with water as a precaution.

If swallowed: If you feel unwell, call a doctor.

Most important symptoms/effects, acute and delayed:

If inhaled: Dust that may be generated from this product may cause respiratory irritation if inhaled excessively. Although toxicity data in humans and animals are not known, this product is regarded as presenting an inhalation hazard.

If on skin: None under normal conditions. Dust may cause irritation by contact with skin folds or tight clothing.

If in eyes: None under normal conditions. Dust from this product may cause eye irritation.

If swallowed: None under normal conditions.

Special notes to physician: Treat symptomatically.

5. Fire-Fighting Measures

Suitable extinguishing media: Water spray, dry chemical powder, foam.

Unsuitable extinguishing media: Do not use a strong water jet.

Fire hazard: No fire hazard.

Explosion hazard: No direct explosion hazard.

Hazardous decomposition products in fire: May release toxic fumes.

Advice for firefighting: Fight fire from a safe distance and protected location. Do not enter the fire area without proper protective equipment, including respiratory protection.

Protective equipment for firefighters: Wear appropriate protective equipment. Self-contained breathing apparatus. Full protective clothing.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

General measures: If the product enters sewers or public waters, notify the authorities. Absorb spilled material to prevent material damage.

For non-emergency personnel:

- Protective equipment: Wear recommended personal protective equipment.
- Emergency procedures: Ventilate the spill area.

For emergency responders:

- Protective equipment: Wear appropriate protective equipment. See Section 8, 'Exposure Controls / Personal Protection' for details.
- Emergency procedures: Evacuate unnecessary personnel.

Environmental precautions: Avoid release to the environment.

Methods and materials for containment and cleaning up:

- Containment: Using a clean shovel, place the material into a dry container and cover it without compacting.
- Cleanup: Recover the product mechanically.
- Other information: Dispose of material or solid residues at an authorized site.

7. Handling and Storage

Handling:

Technical measures: No data available.

Precautions for safe handling: Ensure adequate ventilation in the workplace. Wear personal protective equipment.

Avoid contact: No data available.

Hygiene measures: Do not eat, drink, or smoke when using this product. Always wash hands after handling the product.

Additional hazards during use: Under normal conditions of use, no significant hazards are expected.

Storage:

Conditions for safe storage: Store at room temperature. Keep container tightly closed and protect from moisture.

Safe packaging materials: No data available.

Technical measures: Store in a cool, well-ventilated place away from heat.

Packaging materials: Keep only in the original container or a container made of the same material as the original.

8. Exposure Controls / Personal Protection

Engineering controls: Ensure adequate ventilation in the workplace.

protective equipment:

Personal protective equipment: Wear recommended personal protective equipment.

Respiratory protection: If ventilation is insufficient, wear suitable respiratory protection.

Hand protection: Protective gloves.

Eye protection: Safety glasses.

Skin and body protection: Wear suitable protective clothing.

Environmental exposure controls: Avoid release to the environment.

9. Physical and Chemical Properties

Physical state: Solid

Molecular weight: 191.7

Color: White powder

Odor: Irritating odor

pH: No data available

Melting point: 113–121°C

Freezing point: No data available

Boiling point: No data available

Flash point: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Flammability: No data available

Vapor pressure: No data available

Density: No data available

Solubility: Soluble in water

n-Octanol/water partition coefficient (Log Pow): 0.21

Explosive limits (vol%): No data available

Kinematic viscosity: No data available

Particle characteristics: No data available

10. Stability and Reactivity

Reactivity: The product is non-reactive under normal conditions of use, storage, and transport.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: No dangerous reactions known under normal conditions of use.

Conditions to avoid: None under recommended storage and handling conditions (see Section 7).

Incompatible materials: No data available

Hazardous decomposition products: Under normal conditions of use and storage, hazardous decomposition products should not be produced.

11. Toxicological Information

Acute toxicity (oral): Not classified

Acute toxicity (dermal): Not classified

Acute toxicity (inhalation): Not classified (outside classification scope) for gas, vapor, and dust/mist.

Skin corrosion/irritation: Not classified

Serious eye damage/eye irritation: Not classified

Respiratory sensitization: Not classified

Skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified

12. Ecological Information

Ecotoxicity:

General ecological information: This substance is not considered harmful to aquatic organisms and is not expected to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute): Not classified

Hazardous to the aquatic environment, long-term (chronic): Not classified

Persistence and degradability: No data available

n-Octanol/water partition coefficient (Log Pow): 0.21

Hazardous to the ozone layer: Not classified

Other adverse effects: No additional information

13. Disposal Considerations

Recommended disposal of product/packaging: For solid waste, comply with applicable laws and regulations. Dispose of in accordance with the regulations of the competent authority. Dispose of contents/container through sorted collection by an authorized waste contractor.

Disposal methods: Dispose of in accordance with the regulations of the competent authority.

Local regulations: Dispose of in accordance with the regulations of the competent authority.

Recommended sewage disposal: Dispose of in accordance with the regulations of the competent authority.

Additional information: Do not reuse empty containers.

14. Transport Information

International regulations: Air transport:

UN number: Not applicable

Packing group: Not applicable

Class: Not applicable

Domestic regulations: No supplementary information

15. Regulatory Information

National regulations: Not applicable

16. Other Information

Disclaimer: The information contained in this sheet is based on information believed to be reliable; however, no warranty, express or implied, is made regarding its accuracy. With respect to regulatory information, major Japanese chemical-related regulations, including the Industrial Safety and Health Act, the PRTR Act, and the Poisonous and Deleterious Substances Control Act, have been reviewed, but this does not necessarily cover all domestic laws and regulations. Therefore, even if not listed, this does not mean that the substance is outside the scope of such regulations. Conditions for handling, use, storage, or disposal of the product are beyond our control and may be outside our knowledge; therefore, we assume no responsibility whatsoever, direct or indirect, for any loss, damage, or expense arising from handling, use, storage, or disposal of the product. This sheet is intended for use only with this product. If the product is used as a component in another product, the information contained in this sheet may not apply.