

Safety Data Sheet (SDS)

1. PRODUCT AND COMPANY IDENTIFICATION

Catalog Code Number: 1020
Product Name: WSCD
Supplier's Name: Peptide Institute, Inc.
Address: 7-2-9 Saito-Asagi, Ibaraki-Shi, Osaka 567-0085, Japan
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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS classification

HEALTH HAZARDS

ACUTE TOXICITY: ORAL	Category 3
SKIN CORROSION/IRRITATION	Category 1A
SERIOUS EYE DAMAGE/ EYE IRRITATION	Category 1
SKIN SENSITIZATION	Category 1

Pictograms



Signal word Danger

Hazard statements

Toxic if swallowed
Causes severe skin burns and eye damage
May cause an allergic skin reaction

Precautionary statements

Prevention

Do not breathe gas/mist/vapours/spray.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.

Response

IF SWALLOWED: Immediately call a doctor. Rinse mouth. Do not induce vomiting.
IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/shower. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.

Storage

Store locked up.

Disposal

Dispose of contents/container to an approved waste disposal plant.

Other hazards: No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture: Single Substance

Common Chemical Name: 1-Ethyl-3-(3-dimethylaminopropyl)carbodiimide

Common Name: Water-Soluble Carbodiimide

Synonym: EDC

Molecular Formula: C₈H₁₇N₃ (M.W. 155.24)

CAS Registry Number: 1892-57-5

EINECS No.: 217-579-2

UN No. & Hazard Class: UN 2735, Class 8

4. FIRST AID MEASURES

Inhalation: Immediately remove person to fresh air. Immediately call a doctor.

Skin contact: Take off immediately all contaminated clothing. Rinse skin with plenty water and soap. Immediately call a doctor.

Eye contact: Promptly rinse with water for 15 minutes. Call a doctor.

Ingestion: Immediately call a doctor. Rinse mouth. Do not let it vomit. In case of conscious, give one or two glasses of water to drink. If case of unconscious, do not give anything by mouth and do not let it vomit.

5. FIRE FIGHTING MEASURES

Extinguishing media: Carbon dioxide gas, powder ABC extinguishing agent, Foam fire extinguisher for water-soluble liquid (Alcohol-resistant foam)

Unsuitable extinguishing media: Water, Normal foam fire extinguisher

Special extinguishing method:

Shut off the source of combustion to the fire source, wear goggles, gloves, respiratory protection.

Specific hazards arising from the chemical product:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

Environmental precautions:

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminant and methods and materials for cleaning up:

Remove the nearby ignition source, absorb by absorbent, sweep and remove. After completely removing contaminants, ventilate and clean contaminated areas.

7. HANDLING AND STORAGE

Handling

Technical measures: Remove ignition source and prevent generation and accumulation of static electricity.

Precautions: Be careful not to spill it when taking it in or out of the container.

Wash hands, face etc. and gargle thoroughly immediately after handling.

Safety Handling Precautions: When handling, wear appropriate protective equipment and perform local ventilation.

Storage: Keep container tightly closed. Store in a cool dry place. Recommended Storage -20 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: Use local ventilation. Install emergency eyes cleansing facility and shower near the handling place.

Exposure limits: No data available

Personal protective equipment:

Wear appropriate respirator, chemical-resistant gloves, safety goggles, other protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Colorless to pale yellow clear liquid

Reactivity in Water: No reactivity

Solubility: Soluble in H₂O

Flash point: 99 °C (Cleveland open type)

10. STABILITY AND REACTIVITY

Stability: Under proper storage and handling conditions, stable and dangerous decomposition does not occur. When stored at room temperature, gradually polymerize.

Reactivity: No data available

Conditions to Avoid: Sunlight, heat, strong oxidant, moisture

Hazardous decomposition products: When burning it generates toxic gases (NO_x, CO, etc.).

11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD₅₀ (*p.o.* rat): 250 - 500 mg/kg GHS classification category 3

Skin irritation/corrosion: Primary irritation index by Draize test (P.I.I.) 7.00 GHS classification category 1A

Serious eye damage/ irritation: Causes serious eye damage. GHS classification category 1

Respiratory or skin sensitization: Causes a dehydration reaction, and inflammation or eczema occur in skin and mucous membranes. GHS classification category 1 (skin sensitization)

Reproductive cell mutagenicity: Reverse mutation screening test using the bacteria (Ames test) positive

Carcinogenicity: No data available

Reproductive toxicity: No data available

STOT-single exposure: No data available

STOT-repeated exposure: No data available

Aspiration hazard: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

13. DISPOSAL CONSIDERATIONS

When incinerating, after diluting with a flammable solvent, properly incinerate it while paying attention to gas generated during combustion. Observe all federal, state and local environmental regulations.

14. TRANSPORT INFORMATION

UN number and UN classification

UN number: UN2735

UN classification: Class 8

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.

15. REGULATORY INFORMATION

Japanese regulations

Fire Service Act: Category IV, Type-3 petroleum, dangerous grade 3 water-insoluble

Civil Aeronautics Law: Corrosive substance (Enforcement Regulation Article 194 · Notification Appended Table 1, Amines (Liquid) (Corrosive) Classification Category 8, Container Grade I)

Peptide Institute, Inc.

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Ship Safety Act: Corrosive substance (Dangerous Rule Notification Appendix Table 1, amines (liquid) (corrosive) grade 8, container class I)

Act on Port Regulations: Corrosive substance (Enforcement Regulation Article 12 · Notification 547 Appended Table)

Caution: The chemical, physical and toxicological properties of this product have not been thoroughly investigated. Exercise due care.

16. OTHER INFORMATION

Disclaimer: NOT FOR USE IN HUMANS. For R&D use only. Not for drug, household or other uses.

Reference:

1. JCIA: Japan Chemical Industry Association GHS support Guidelines (June, 2012)
2. JIS Z7253:2012 Hazard communication of chemicals based on GHS-Labeling and Safety Data Sheet (SDS)
3. NITE: National Institute of Technology and Evaluation (JAPAN) web site

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