SECTION 1: Identification

GHS Product identifier: Sodium N-(2-aminoethyl)aminoethanesulfonate
Other means of identification: EES-200L EES-200L-H Ethanesulfonic acid, 2-[(2-aminoethyl)amino]-, monosodium salt N-(2-sodiumsulfonatoethyl)-1,2-ethanediamine N-(2-sodiumsulfonatoethyl)ethylendiamine
Recommended use of the chemical and restrictions on use: Basic Intermediates, Laboratory chemicals, Synthesis of substances Not for food or drug use, for laboratory use only.
Supplier's details: TAIWAN HOPAX CHEMS. MFG. CO.,LTD No. 28 Huadong Rd., Daliao Dist., Kaohsiung City 831134 TAIWAN-ROC
Emergency phone number: +886-7-7887600 / +886-7-7872892 Ext 314

SECTION 2: Hazard identification

Classification of the substance or mixture: Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Specific target organ toxicity - single exposure (Category 3), H335

GHS label elements, including precautionary statements:



GHS07

Singal Word：Warning

Hazard statement(s)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statement(s)

Prevention

P261 Avoid breathing dust.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

Response

P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification:N/A

SECTION 3: Composition/information on ingredients

Substances

Chemical identity of the substance: Sodium N-(2-aminoethyl)aminoethanesulfonate
Common name(s), synonym(s) of the substance: Ethanesulfonic acid, 2-[(2-aminoethyl)amino]-, monosodium salt N-(2-sodiumsulfonatoethyl)-1,2-ethanediamine N-(2-sodiumsulfonatoethyl)ethylendiamine
CAS number and other unique identifiers for the substance: 34730-59-1
Impurities and stabilizing additives which are themselves classified and which contribute to the classification of

the substance: No data available
Concentration（% of the content）：N/A

Mixtures

Chemical identity	Identification number (CAS No.)	Concentration or concentration ranges of all hazardous ingredients
Sodium N-(2-aminoethyl)aminoethanesulfonate	34730-59-1	≧ 43.0%
Water	7732-18-5	≦ 57.0%

SECTION 4: First-aid measures

Description of necessary first-aid measures

- **Inhalation:** Keep patient calm, remove to fresh air, seek medical attention
- **Skin:** Flush with copious amounts of water for at least 15 minutes. Immediate medical attention required.
- **Eye:** Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
- **Ingestion:** Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention.

Most important symptoms/effects, acute and delayed:
The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of immediate medical attention and special treatment needed, if necessary: No data available

SECTION 5: Fire-fighting measures

Suitable extinguishing media: Foam, CO2 or dry powder. Water spray may be used if no other available and then in copious quantities.

Specific hazards arising from the chemical:
Carbon oxides
Nitrogen oxides (NOx)
Hydrogen cyanide can be released in case of fire.

Special protective actions for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Safety boots, gloves, safety helmet and protective clothing should be worn.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
For non-emergency personnel: Avoid dust formation. Avoid breathing vapors, mist or gas. For personal protection see section 8.

Environmental precautions: Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

Methods and materials for containment and cleaning up: Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling:

Advice on protection against fire and explosion

Open and handle the container with caution. Provide sufficient air exchange and/or exhaust in work rooms.
The air should be drawn away from the personnel handling the product.

Hygiene measures

General industrial hygiene practice.
For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities:

Storage conditions

Store in original, properly-sealed container in ambient conditions for temperature and humidity.
Avoid exposure of material to direct sunlight. Isolate from any source of heat or ignition.

SECTION 8: Exposure controls/personal protection

Control parameters:

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

Appropriate engineering controls: General industrial hygiene practice.

Individual protection measures, such as personal protective equipment (PPE):

- **Eye/face protection:** Tightly fitting safety goggles. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.

Skin protection: Wear protective gloves. Recommendations are listed below.

Suitable material: butyl-rubber
Evaluation according to EN 374: level 3
Glove thickness approx.. 0,5 mm.
Break through time approx.. 480 min.
Recommendation: Dispose of contaminated gloves.

- **Body Protection:** Impervious clothing. Wear face-shield and protective suit for abnormal processing problems.
- **Respiratory protection:** Respirator with a filter. Respirator with a filter should conform to EN 141 B-P2 or EN 141 B-P3. Full mask with above mentioned filter according to producers using requirements. In case of higher concentration or unsuitable conditions self-contained breathing apparatus (insulating device) should be used.self-contained breathing apparatus.
- **Thermal hazards:** No data available

Control of environmental exposure

Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

SECTION 9: Physical and chemical properties

(a) Appearance (physical state, colour etc)	Colorless to yellow liquid
(b) Odour	No data available
(c) Odour threshold	No data available

(d) pH	11.0-11.5
(e) Melting point/freezing point	-60 °C(at 101325 Pa)
(f) Initial boiling point and boiling range	106°C(at 101325 Pa)
(g) Flash point	No data available
(h) Evaporation rate	No data available
(i) Flammability (solid, gas)	No data available
(j) Upper/lower flammability or explosive limits	No data available
(k) Vapour pressure	18 hPa(at 20°C)
(l) Vapour density	No data available
(m) Relative density	1.238(at 20°C)
(n) Solubility(ies)	500 mg/L
(o) Partition coefficient: n-octanol/water	Log Kow (Log Pow):-3.1
(p) Auto-ignition temperature	No data available
(q) Decomposition temperature	No data available
(r) Viscosity	14.1 mPa · s (dynamic) (at 20°C)

SECTION 10: Stability and reactivity

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No data available

Conditions to avoid: No information available

Incompatible materials: No information available

Hazardous decomposition products: In the event of fire: see section 5

SECTION 11: Toxicological information

(a) Acute toxicity:

Oral: LD50 - Rat - female - > 2,000 mg/kg

(OECD Test Guideline 423)

Inhalation: No data available

Dermal: LD50 - Rat - male and female - > 2,000 mg/kg

(OECD Test Guideline 423)

(b) Skin corrosion/irritation:

Skin - Rabbit

Result: No skin irritation - 4 h

(OECD Test Guideline 404)

(c) Serious eye damage/irritation:

Eyes human corneal epithelial (HCE) cell

Result: eye irritation -60 min./room temperature

(d) Respiratory or skin sensitization: No data available

(e) Germ cell mutagenicity: No data available

(f) Carcinogenicity: No data available **(g) Reproductive toxicity:**No data available **(h) STOT-single exposure:**No data available **(i) STOT-repeated exposure:** No data available **(j) Aspiration hazard:** No data available
Information on the likely routes of exposure: **Ingestion (swallowing) :**No data available **Inhalation:**No data available **Skin/Eye:**No data available
Symptoms related to the physical, chemical and toxicological characteristics: No data available
Delayed and immediate effects and also chronic effects from short and long term exposure: No data available
Numerical measures of toxicity (such as acute toxicity estimates): No data available
Interactive effects: No data available
Where specific chemical data are not available: No data available

Mixtures

Mixture versus ingredient information: No data available
Other information: No data available

SECTION 12: Ecological information

Toxicity:

Toxicity to fish	static test LC0 - Danio rerio (zebra fish) - > 1,000 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	static test ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	static test EC50- activated sludge - > 10,000 mg/l

Persistence and degradability: No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available
Other adverse effects: No data available

SECTION 13: Disposal considerations

Disposal methods:

Product

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local

statutes and possibilities for disposal.
Uncleaned empty packaging:
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

SECTION 14: Transport information

UN Number:
ADR/RID, IMDG, IATA-DGR: Not Applicable

UN Proper Shipping Name:
ADR/RID, IMDG, IATA-DGR: Not dangerous goods

Transport hazard class(es):
ADR/RID, IMDG, IATA-DGR: Not Applicable

Packing group, if applicable:
ADR/RID, IMDG, IATA-DGR: Not Applicable

Environmental hazards: Marine Pollutant（Yes/No）：No

Special precautions for user: No data available

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question:

Inventory of Existing Chemical Substances in China (IECSC)
Substance is listed.

Chemical Substance Inventory in Taiwan, China (TCSI)
Substance is listed.

Japan Existing and New Chemical Substances Inventory (ENCS)
Substance is not listed.

Korea Existing Chemicals List (KECL)
Substance is listed.

Korea Priority Existing Chemicals List (PEC)
Substance is not listed.

TSCA Chemical Substance Inventory
Substance is listed.

EU EINECS/ELINCS/NLP
Substance is listed.

New Zealand Inventory of Chemicals (NZIoC)
Substance is listed.

Philippine Inventory of Chemicals and Chemical Substances (PICCS)
Substance is not listed.

Australian Inventory of Industrial Chemicals (AIIC)
Substance is listed.

Canada Domestic Substances List (DSL)
Substance is not listed.

Canada Non-domestic Substances List (NDSL)
Substance is listed.

Thailand Existing Chemicals Inventory (TECI)
Substance is not listed.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The date of preparation of the latest revision of the SDS: 2026/01/24	**Version:** 2.1
A key/legend to abbreviations and acronyms used in the SDS: N/A	
Key literature references and sources for data used to compile the SDS: European Chemicals Agency	

Disclaimer

This SDS was prepared sincerely on the basis of the information we could obtain. However, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information, but also the laws and regulations of the organization, area and country where the product is to be used, which shall be given the first priority.

The product is supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added hereafter. If the product is to be used beyond the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The product must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set upon each user's own responsibility.

End of Safety Data Sheet