

**E E J A****SAFETY DATA SHEET****1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**


Product name : **NEUTRONEX STRIKE "B"**  
 Product code # : SDSE013030500-b  
 Company name : Electroplating Engineers of Japan Ltd.  
 Address (Head office) : 7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo, 100-6422 JAPAN  
 (Hiratsuka office) : 5-50 Shinmachi, Hiratsuka, Kanagawa, 254-0076 Japan  
 Preparer : SDS administrator  
 Telephone number : +81-463-32-8131 (for Information and Emergency)  
 Fax number : +81-463-33-4017

**2. HAZARDS IDENTIFICATION****GHS classification**

Physical and Chemical hazards			
Explosives	Not applicable	Pyrophoric liquids	Not classified
Combustible/flammable gases	Not applicable	Pyrophoric solids	Not applicable
Chemical unstable gases	Not applicable	Self-heating substances and mixtures	Not applicable
Combustible/flammable aerosols	Not applicable	Substances and mixtures that emit flammable gases in contact with water	Not applicable
Combustion-supporting/oxidizing gases	Not applicable	Oxidizing liquids	Not classified
Gases under pressure	Not applicable	Oxidizing solids	Not applicable
Flammable liquids	Not classified	Organic peroxides	Not applicable
Combustible solids	Not applicable	Metal corrosives	Not classified
Self-reactive substances and mixtures	Not applicable		
Health hazards			
Acute toxicity (oral)	Not classified	Respiratory sensitizers	Category 1
Acute toxicity (dermal)	Not classified	Skin sensitizers	Category 1
Acute toxicity (inhalation: gases)	Not applicable	Germ cell mutagenicity	Not classified
Acute toxicity (inhalation: vapors)	No data available	Carcinogenicity	Not classified
Acute toxicity (inhalation: dusts)	Not applicable	Reproductive toxicity	No data available
Acute toxicity (oral: mists)	No data available	Specific target organ toxicity single exposure	Not classified
Skin corrosion/irritation	Not classified	Specific target organ toxicity repeated exposure	Not classified
Serious eye damage/eye irritation	Not classified	Aspiration hazards	No data available

Environmental Hazards			
Hazardous to the aquatic environment – short-term (acute) hazard	Not classified	Hazardous to the aquatic environment – Long-term (chronic) hazard	Not classified
Hazardous to the ozone layer	No data available		

## GHS label elements

Pictogram or symbol	Signal word
	<b>Danger</b>

## Hazard information

- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause allergic skin reaction.

## Precautionary Statements

## &lt;Safety measures&gt;

- Wear protective gloves/ clothing/ glasses/ mask.
- Use local exhaust.
- Do not swallow or breathe mist/vapors.
- Do not get in eyes, on skin, or on clothing.

## &lt;First aid measures&gt;

- If inhaled, remove to fresh air and keep at rest and call a doctor if the person feels unwell.
- If swallowed, immediately call a doctor.
- If on skin, wash with plenty of soap and water and remove all contaminated clothing.
- If skin irritation or rash occurs, get medical advice/attention.
- If skin or eye irritation/inflammation occurs, get medical advice/attention.
- If experiencing respiratory symptoms, call a doctor.

## &lt;Storage&gt;

- Store locked up in a cool/well-ventilated place.

## &lt;Disposal&gt;

- Dispose of container and content based on local/regional/international rules.

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical substance: ☐ Single compound/ ☒ Mixture

Chemical name	%	Formula	CAS #
Sodium gold sulfite	0.22% ( $<0.1\%$ as Au)	$\text{Na}_3\text{Au}(\text{SO}_3)_2$	19153-98-1
Inorganic acid salt	3~4%	—	—
Organic compound	1.7~2.2%	—	—
Organic acid salt	0.8~1%	—	—
Ethylenediamine	0.1~0.3%	$\text{NH}_2\text{CH}_2\text{CH}_2\text{NH}_2$	107-15-3
Water	90~95%	$\text{H}_2\text{O}$	7732-18-5

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#### 4. FIRST AID MEASURES

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- Inhalation : Immediately cover the victim with blanket etc. and remove to fresh air to rest. Help the victim to blow his/her nose and gargle. Get medical attention immediately.
- Skin contact : Immediately remove contaminated clothing and shoes. Wash exposed or contacted parts with large amounts of water.
- Eye contact : Wash with large amounts of water for at least 15 minutes and get medical attention immediately.
- Ingestion : Keep the victim warm with blanket, etc. and give him/her plenty of water to induce vomiting. Get medical attention as needed.
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#### 5. FIRE FIGHTING MEASURES

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- Extinguishing media : Large amounts of water
- Fire fighting procedures : This product is nonflammable but in case of surrounding fire, remove the container to a safe place without delay. If impossible, cool down the container and surrounding by sprinkling water.
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#### 6. ACCIDENTAL RELEASE MEASURES

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- Personal safeguards : Always wear protective equipment when handling this product. Rope off the area to keep the unauthorized people away. Work from upwind and evacuate downwind people.
- Environmental safeguards : Do not rinse with water directly without pre treatment.
- Disposal procedures : Collect as much of the spilled liquid as possible with absorbents and wash with large amounts of water.
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#### 7. HANDLING AND STORAGE

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##### Handling

- Engineering measures : Wear personal protective equipment to avoid contact and inhalation.
- Safety handling : Ventilate area to avoid inhaling the mist. Provide local exhaust system. Handle with care to avoid any physical damage.

##### Storage

- Safety storage condition : Keep separated from other materials. Room temperature (10~30°C) and indoor away from direct sunlight
- Incompatibles : Oxidizing agents
- Safety packing materials: Polyethylene etc.
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#### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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- Protective equipment : Safety glasses, protective gloves/clothing
- Facility measures : Provide local exhaust system.
- Threshold limits : ACGIH (the year 2009 Edition): TLV-TWA 10ppm  
(percutaneous as ethylenediamine)

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical state	: Liquid
Color	: Clear colorless
Odor	: None
pH	: 8.5
Boiling point	: >100°C
Melting point	: <0°C
Flammable point	: Nonflammable
Ignition point	: Nonflammable
Explosion properties	: Nonflammable
Density	: 1.05g/cm <sup>3</sup> (25°C)
Solubility	: Easily soluble in water

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## 10. STABILITY AND REACTIVITY

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Stability	: Stable under normal use conditions.
Reactivity	: Stable under normal use conditions.
Conditions to avoid	: Heat
Incompatible materials	: Oxidizing agent
Hazardous decomposition	: None

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## 11. TOXICOLOGICAL INFORMATION

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Acute toxicity	: No data available
Skin corrosion/irritation	: May irritate the skin and mucous membranes.
Serious eye damage/eye irritation	: No data available
Sensitizer	: <u>Respiratory sensitizer</u> Ethylenediamine is classified into respiratory sensitizers by Japanes Society of Occupational and Environmental Allergy Special Committee. There is a description that occupational exposure to ethylenediamine caused asthma. (CICAD 15(1999), SIDS(2003)) Ethylenediamine is considered as respiratory sensitizer to humans. <u>Skin sensitizer</u> Ethylenediamine is classified into respiratory sensitizer by Japanese Society of Occupational and Environmental Allergy Special Committee. There is a description that ethylenediamine showed positive as the result of human dermatitis patients' patch tests. (CICAD 15(1999), SIDS(2003), Environmental Risk Assessment vol. 3(2004))

There is a description that ethylenediamine showed positive as the result of guinea pigs' skin sensitization tests. (CICAD 15(1999), SIDS(2003))

Ethylenediamine is considered as skin sensitizer.

Germ cell mutagenicity	: No data available
Carcinogenicity	: No data available
Toxic to reproduction	: No data available
Specific target organ toxicity	: No data available
Aspiration hazards	: No data available

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## 12. ECOLOGICAL INFORMATION

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Toxic to reproduction	: No data available
Persistence/Biodegradability	: No data available
Bioaccumulation	: No data available
Mobility in soil	: No data available
Ozone layer	: No data available

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## 13. DISPOSAL CONSIDERATIONS

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Waste from residues:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated container and packaging:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

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## 14. TRANSPORT INFORMATION

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Aviation regulated information

UN Class	: Not applicable
UN number	: Not applicable
Packing group	: Not applicable

Marine regulated information

UN Class	: Not applicable
UN number	: Not applicable
Packing group	: Not applicable

Marine pollution substances : Applicable (Category Z)

Specific safety measures and conditions on transport:

Handle with care to avoid any physical damage.

Exercise caution with regard to loss and theft in transit or recess.

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## 15. REGULATORY INFORMATION

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Observe the applicable international regulations, and the laws of the particular countries affected.

*\* For applicable Japanese regulations, refer to the Japanese version of this SDS.*

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## 16. OTHER INFORMATION

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Reference :

Globally Harmonized System of Classification and Labeling of Chemicals by The Chemical daily Co., Ltd.

Guideline for Material Safety Data Sheet Edition by Japan Chemical Industry Association

Dangerous Goods Regulations by The Japan Air Cargo Institute for Safety

13700 Chemical Products by The Chemical daily Co., Ltd.

Chemical Substances Control Manual by The Chemical daily Co., Ltd.

Emergency Response Guidebook by Japan Chemical Industry Association

2000TLVs and BEIs by ACGIH

Poisonous and Deleterious Substances Control Law Statute Book by Yakumukohosha

Substances listed by PRTR Law/Industrial Safety and Health Law by The Chemical daily Co., Ltd.

Chemical Products Safety Control Data book by The Chemical daily Co., Ltd.

HP with National Institute of Technology and Evaluation (Japan)

SDSs and MSDSs of each raw material company

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