

GHS Safety Data Sheet

SDS No. : NAI01XAEG

Date Issued: 2019/03/01

Section 1. Identification of the substance or mixture and of the supplier

Product Information

Product name: Na₂S **Sodium sulfide, anhydrous**

Product number:	Purity	Form	Size or Shape
NAI03XB	99 %(2N)	Solid	—

Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.
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Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
Acute toxicity (Oral) : Category 3 Skin corrosion/irritation : Category 1A-1C Serious eye damage/eye irritation : Category 1 Specific target organ toxicity, single exposure : Category 2	Hazardous to the aquatic environment, acute hazard : Category 1	Flammable solids : Not classified Self-heating substances and mixtures : Category 1 Substances and mixtures which, in contact with water, emit flammable gases : Not classified Corrosive to metals : Not classified

GHS Label: F, T, R, C, V



Pictograms or symbols:

Warning word: DANGER

Hazard information

Self-heating; may catch fire
Toxic if swallowed
Causes severe skin burns and eye damage
Causes serious eye damage (Respiratory tract)
May cause damage to organs
Very toxic to aquatic life

Description of precaution

Wear protective gloves/protective clothing/eye protection/respiratory protection/face protection during handling.
 Avoid breathing dust/mist/gas/fume/vapors/spray. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling.
 Take off the contaminated clothing and wash before reuse.
 Avoid release to the environment and collect spillage.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 IF ON SKIN: Remove immediately all contaminated clothing and rinse skin with water/shower. Then wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention.
 Immediately call a POISON CENTER or doctor/physician.
 Call a POISON CENTER or doctor/physician if you feel unwell.
 Protect from sunlight. Store in a cool, dry and well-ventilated place. Keep container tightly closed.
 Store locked up.
 Dispose of contents/ container in accordance with local/national regulations.

Additional hazard information : Contact with water may liberate flammable gases.

In case of fire, the product may liberate toxic gases/ fume.

With respect to additional hazard information, see Section 11.

Section 3. Composition / information on ingredients

Chemical or common name:	Sodium sulfide
Chemical formula:	Na ₂ S
Single Substance or Compound:	Single substance
Composition:	100%
CAS #:	1313-82-2
RTECS#:	WE1905000
TSCA inventory :	listed
EINECS:	2152115

Section 4. First aid measures

Eye contact:	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.
Skin contact:	Promptly flush contaminated skin with soap or mild detergent and water. Contact physician if irritation continues.
Inhalation:	Remove the exposed person immediately and provide fresh air. Get medical attention.
Ingestion:	Rinse mouth and throat with water. Get medical attention immediately.

Section5. Fire fighting measures

Extinguishing media:	Water fog or foam, Perlite ,dry sand.
Fire fighting:	In case of fire, the product may liberate toxic gases/ fume. Contact with water may liberate flammable gases. Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire. Remove containers to safe place if possible. Use water spray to Cool down nearby structures and containers.

Section 6. Accidental release measures

Personal Precautions:	Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor/dusts.
Environmental hazard precautions:	Shut off leak if without risk. Prevent flow out to river, etc. so as not to badly affect.
Method for containment and cleaning up:	DO NOT use water with spills Remove all sources of ignition. Avoid unnecessary contacts with spills. Indoor leakage: Ventilate as much as possible until the cleaning is completed. Outdoor leakage: Work from the windward and evacuate the leeward crowd. Gather up, pack in closed DOT-approved waste container as much as possible. Carefully collect remnant and move to a safe place.

Section 7. Handling and storage

Precautions to be taken in handling:

Safe handling: Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen.
 Avoid prolonged or repeated exposure.
 Handle the material in a dry inert gas atmosphere, utilizing glove bag or glove box.
 Keep away from moisture when handling.
 Keep container or bottle tightly closed when not in use.
 Air and moisture sensitive.
 Keep away from heat, sparks and naked flame.

Precautions to be taken in storage:

General precautions: Store the material in a sealed container.
 Store in a cool, dry, well ventilated and dark place away from incompatible materials.
 Store the material in a sealed container, or in the original container under dry inert atmosphere.
 Keep away from any heat, sparks, and flames.

Section 8. Exposure controls / personal protection

Exposure guideline: ACGIH(2013) : No data available
 OSHA(2006) : No data available
 Facility measures: Local ventilation of closed work room or total proper ventilation to prevent inhalation.
 Protective ware: Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, protective gloves.

Section 9. Physical and chemical properties

Appearance: Colorless solid with characteristic odour. Deliquescent.
 Chemical formula: Na₂S
 Formula weight: 78.0
 Melting point: 1180 °C
 Density: 1.86 g/cm³
 Solubility: Water ; Soluble, Ethanol ; Slightly soluble
 Auto-ignition temperature: >480 °C
 Flammable: Non-combustible substance
 Oxidation: None
 Others: May decompose on exposure to air and moisture.

Section10. Stability and reactivity

Stability: Stable in closed container under inert gas.
 Reactivity
 Incompatibility: Oxygen, water, acids, strong oxidizing agents.
 Condition to avoid: Heat, moisture, air.
 Hazardous decomposition products: Hydrogen sulfide, sulfur oxides

Section11. Toxicological information

Acute toxicity(Oral):	GHS : Category 3 ; Toxic if swallowed rat LD ₅₀ = 208 mg/kg (RTECS Access on Aug (2005))
Acute toxicity(Dermal, Inhalation):	GHS : No data available
Skin corrosive / irritation:	GHS : Category 1A-1C ; Causes severe skin burns and eye damage
Serious eye damage / irritation:	GHS : Category 1 ; Causes serious eye damage
Respiratory/ skin sensitization:	GHS : No data available
Germ cell mutagenicity:	GHS : Not classified ; Falls below the lowest level
Carcinogenicity:	GHS : No data available
Reproductive toxicity:	GHS : No data available
Specific target organ toxicity	
—single exposure:	GHS : Category 2 ; May cause damage to organs (Respiratory tract)
—repeated exposure:	GHS : No data available

Section12. Ecological information

Ecotoxicity:	
Hazardous to the aquatic environment	
—acute toxicity:	GHS : Category 1 ; Very toxic to aquatic life Crustacea (Water flea) LC ₅₀ = 550 µg/L/48hr (AQUIRE(2003))
—chronic toxicity:	GHS : Not classified ; Falls below the lowest level
Hazardous to the ozone layer	GHS : No data available No Freon or Halon
Fish toxicity:	No data available
Degradability:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available

Section13. Disposal considerations

Disposal method:	User of the product should contract with the local government or licensed 'Industrial Waste Haulers' for disposal of waste.
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Section 14. Transport information

UN number:	1385
IATA shipping name:	SODIUM SULPHIDE, ANHYDROUS or SODIUM SULPHIDE with less than 30% water of crystallization
IATA hazard class:	Class 4.2 (Substances liable to spontaneous combustion)
IATA packing group:	II
HS code:	2830.10
Marine pollution:	None

Section 15. Regulatory information

TSCA inventory :listed
Please refer to any other local / national measures that may be relevant.

Section 16. Other information

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.