

GHS Safety Data Sheet

SDS No. : NAF02XAEG

Date Issued : 2019/07/15

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

Product Information

Product name: Na₂SiO₃·9H₂O Sodium m-silicate, hydrous

Product	Purity	Form	Size or Shape
NAF22XB	99%(2N)	—	—

Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.

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Recommended uses and restrictions on use: For research purposes

Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
Skin corrosion/ irritation: Category 1 Serious eye damage/ eye irritation: Category 1 Specific target organ toxicity, repeated exposure: Category 2	No data available	Flammable solids : Not classified Pyrophoric solids : Not classified Self-heating substances and mixtures : Not classified Substances and mixtures which, in contact with water, emit flammable gases : Not classified

GHS Label: R, C



Pictograms or symbols:

Warning word: DANGER

Hazard information	Description of precaution
Causes severe skin burns and eye damage Causes serious eye damage May cause damage to organs (Nervous system)	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. 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. 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. Store locked up. Dispose of contents/ container in accordance with local/national regulations.



High Purity Materials

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Section 3. Composition / information on ingredients

Chemical or common name:	Sodium metasilicate nonahydrate
Chemical formula:	Na ₂ SiO ₃ ·9H ₂ O
Single Substance or Compound:	Single substance
Composition:	100%
CAS #:	13517-24-3
RTECS#:	VV9275000(anhydride)
TSCA inventory :	Listed(anhydride)
EINECS:	2299129(anhydride)

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.

Section 5. Fire fighting measures

Extinguishing media:	The product is not combustible. Use media appropriate for surrounding fire.
Fire fighting:	Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire

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:	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 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.
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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.
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Section 8. Exposure controls / personal protection

Exposure guideline:	ACGIH(2019) : No data available OSHA(2006) : No data available
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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:	White solid.
Chemical formula:	Na ₂ SiO ₃ ·9H ₂ O
Formula weight:	284.2
Melting point:	40~48 °C 100 °C(-H ₂ O)
Density:	2.61 g/cm ³ (anhydride)
Solubility in water:	Soluble
Flammable:	Non-combustible substance
Oxidation:	None

Section10. Stability and reactivity

Stability:	Stable in closed container under room temperature. Efflorescent
Reactivity:	Aqueous solution is strong alkaline.
Condition to avoid:	Air, moisture
Incompatibility:	Acids, hydrogens, aluminum, zinc

Section11. Toxicological information

Acute toxicity(Oral):	GHS : Not classified.; Falls below the lowest level. Rat LD ₅₀ = 2682~3140 mg/kg(Converted by molecular weight(SIDS(2000))
Skin corrosive / irritation:	GHS : Category 1; Causes severe skin burns and eye damage
Serious eye damage / irritation:	GHS : Category 1; Causes serious eye damage
Respiratory sensitization:	GHS : No data available
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 causes damage to organs
— repeated exposure:	GHS : No data available
Aspiration hazard:	GHS : No data available

Section12. Ecological information

Ecotoxicity:	
Hazardous to the aquatic environment	
— acute toxicity:	GHS : No data available
— chronic toxicity:	GHS : No data available
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: 3253
IATA shipping name: DISODIUM TRIOXOSILICATE
IATA classification: Hazardous Class 8 (Corrosive substances)
IATA packing group: III
HS code: 2839.11
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.

