

GHS Safety Data Sheet

SDS No. : NAF 03XAEG

Date Issued: 2016/03/02

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

1.1 Product Information

Product name: Na₂SiO₃ **Sodium m-silicate, anhydrous**

Product number:	Purity	Form	Size (mm) or Shape
NAF23XB	99%(2N)	solid	—

1.2 Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd
 1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284
 Phone: +81-49-284-1511 Fax: +81-49-284-1351
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Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
Acute toxicity, oral : Category 4 Skin corrosive/irritation: Category 1 Serious eye damage/eye irritation: Category 1 Specific target organ toxicity, single 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,W



Pictograms or symbols

Warning word: **DANGER**

Hazard information

Harmful if swallowed
Causes severe skin burns and eye damage
Causes serious eye damage
May cause damage to organs
 (nervous system)

Description of precaution

Wear protective gloves/protective clothing/eye protection/respiratory protection /face protection during handling.
 Avoid breathing dust/fume. 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. 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.
 Store locked up.
 Dispose of contents/ container in accordance with local/national regulations.

Additional hazard information : 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 metasilicate
Chemical formula:	Na ₂ SiO ₃
Single Substance or Compound:	Single substance
Composition:	100%
CAS #:	6834-92-0
RTECS#:	VV9275000
TSCA inventory:	listed
EINECS:	2299129

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:	This product cannot catch fire. 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. In case of fire, the product may liberate toxic gases/ fume.

Section 6. Accidental release measures

Personal Precautions:	Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its 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 DOT-approved waste container as much as possible. Carefully collect remnant and move to a safe place. Carefully wash spill site with plenty of water after material pick up.

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 in a cool, dry place away from incompatible materials. Keep container or bottle tightly closed.
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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, impervious gloves, protective wear, protective boots.

Section 9. Physical and chemical properties

Color and Form:	Colorless solid.
Chemical formula:	Na ₂ SiO ₃
Formula weigh	122.1
Melting point:	1088 °C
Density:	2.61 g/cm ³
Water solubility	Soluble in cold water, hydrolyzed by hot water.
Flammable:	Non-flammable substance
Oxidation:	No data available.

Section 10. Stability and reactivity

Stability:	Stable in a sealed dry atmosphere under room temperature. Hygroscopic.
Reactivity:	Reacts with strong acids.
Incompatibility:	Acids, aluminum, zinc, metals, halogens.
Hazardous decomposition products.:	Hydrogen

Section 11. Toxicological information

Acute toxicity(Oral):	GHS : Category 4 ; Harmful if swallowed
Acute toxicity(Dermal,inhalation)	GHS : No data available
Skin corrosive / irritation:	GHS : Category 1 ; Causes severe skin burns and eye damage
Serious eyes damage / eye 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 cause damage to organs (nervous system)
Specific target organ toxicity — repeated exposure:	GHS: Not classified.; Falls below the lowest level.
Aspiration hazard:	GHS : No data available

Section 12. Ecological information

Ecotoxicity:	
Hazards to the aquatic environment	
— acute toxicity:	GHS: Not classified.; Falls below the lowest level.
— chronic toxicity:	GHS: Not classified.; Falls below the lowest level.

Hazrdous the ozone layer:	GHS ; No data available
	No Freon or Halon
Fish toxicity:	No data available
Degradability:	No data available
Bioaccumulative potential:	Si biological half-life 60 day, Rate of absorption Oral=0.85 Respiratory tract=0.68

Section 13. Disposal considerations

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

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.