

SAFETY DATA SHEET

1. Chemical Product and Company Identification

ProductName Na2SiO3·9H2O (Code#:NAF22XB)

Reference NO. NAF22XAG-001 Creation Date 2025/11/26

Company information

Name

: Kojundo Chemical Laboratory Co.,Ltd.

Creation Date: 2025/11/26

Address : 5-1-28, Chiyoda, Sakado , Saitama, 350-0284, Japan

Name of Section : Quality Assurance Dept.

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Product Use For research purposes

Restriction of use Seek expert judgment when using the product for applications other

than those recommended

2. Hazards identification

[GHS CLASSIFICATION]

PHYSICAL HAZARDS

Not Classification criteria.

HEALTH HAZARDS

Skin corrosion/irritation : Category1
Serious eye damage/Eye Irritation : Category1

toxicity(single exposure)
ENVIRONMENTAL HAZARDS
Not Classification criteria.

Specific target organ

[GHS LABEL ELEMENTS]

Pictogram





: Category2(Nervous system)

Signal Word : Danger

Hazard Statement : Causes severe skin burns and eye damage(H314)

: May cause damage to organs (Nervous system)(H371)

Precautionary Statement

Safety measures: Do not breathe dust/fume/gas/mist/vapours/spray.(P260)

: Wash the competent authority to specify parts of the body to be washed after handling. thoroughly after handling. (P264)

: Do not eat, drink or smoke when using this product.(P270)

: Wear protective gloves/protective clothing/eye

protection/face protection.(P280)

First aid measures: Immediately call a POISON CENTER/doctor(P310)

: Specific treatment.(P321)

: Wash contaminated clothing before reuse.(P363)

: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

(P301+P330+P331)

: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. (P303+P361+P353)

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: IF INHALED: Remove person to fresh air and keep comfortable for breathing.(P304+P340)

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

: IF exposed or concerned: Call a POISON CENTER/doctor(P308+P311)

Storage: Store locked up.(P405)

Disposal: Dispose of contents/container in accordance with

local/regional/national/international regulation.(P501)

3. Composition/information on ingredients

Classification of the substance or mixture : Substance

Chemical name	Concentration(%)	CAS RN®
Sodium metasilicate nonahydrate	100.00	13517-24-3

4. First aid measures

Inhalation : Remove the exposed person immediately and provide fresh air.

Get medical attention.

Skin contact : Promptly flush contaminated skin with soap or mild detergent and

water.

Contact Dermatologist if irritation continues.

Eye contact : Rinse cautiously with water for 15 minutes. Get medical attention

from an ophthalmologist.

When washing your eyes, hold your eyelids open with your fingers to

allow water to reach every corner of your eyeballs and eyelids.

Ingestion : Rinse mouth and throat with water. Get medical attention

immediately.

Necessary precautions for protection of person performing

first aid measures

: Rescue workers wear appropriate eye and skin protection equipment

according to the situation.

Special precautions for doctors : The doctor should carry out treatment that corresponds to the

patient's symptoms.

5. Fire fighting measures

Suitable extinguishing media : Use media appropriate for surrounding fire.

: If there are overlapping items between "Suitable extinguishing media" and "Unsuitable extinguishing media", the use of that Unsuitable extinguishing media

extinguishing media is prohibited.

substance or mixture

Special hazards arising from the : Danger to generate irritating, corrosive and toxic gases during fire.

Special protective equipment

and precautions for fire-fighters

: Wear appropriate respiratory air and the protective clothing (heat

resistance).

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

: Remove all ignition sources.

: Workers should use protective wears to prevent contact with the

spilt adhesive and inhalation of its vapor/dusts.

Indoor leakage: Ventilate as much as possible until the cleaning is

completed.

Outdoor leakage: Work from the windward and evacuate the leeward

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crowd.

Environmental precautions

: Prevent flow out to river, etc. so as not to badly affect.

Methods and material for containment and cleaning up : Shut off leak if without risk.

Avoid unnecessary contacts with spills.

: Gather up, pack in closed DOT-approved waste container as much

as possible.

Carefully collect remnant and move to a safe place.

Measures to prevent secondary

disasters

: Prevent leakage into sewer, rivers and etc., and take measures to

prevent environmental pollution.

7. Handling and storage

Handling

Technical measures : No information available

Precautions for safe handling : If dust is generated.

Use explosion-proof electrical/ventilating/lighting equipment. Fine powder originated from the products (excluding non-

oxidizing oxides) has very high reactivity.

Avoid contact : Use protective wears and local ventilation equipment, if

> inhalation or skin contact is foreseen. Avoid prolonged or repeated exposure.

Hygiene measures : Do not eat, drink or smoke when using this product.

: Wash hands thoroughly after handling.

Storage

Safe storage conditions : Store the material in a sealed container.

Store in a cool, dry, well ventilated and dark place away from

incompatible materials.

: Store molded products such as targets in an unopened

condition.

Safe container packaging

materials

: No information available

8. Exposure controls / Personal protection

Control parameters

Chemical name	ACGIH	OSHA
Sodium metasilicate nonahydrate	-	-

Equipment : Install the appropriate general ventilation equipment, local exhaust ventilation in the workplace.

Personal protection

Respiratory protection : Wear appropriate NIOSH/MSHA-approved respirator.

Hand protection : Wear appropriate NIOSH/MSHA-approved impervious gloves.

Eye and face protection : Wear appropriate NIOSH/MSHA-approved safety goggles.

Skin and body protection : Wear appropriate NIOSH/MSHA-approved impervious

protective wear, protective boots.

Special precautions : Regularly check your protective gear.

: The notes for the table are as follows.

D: Dust, M: Mist, F: Fumes, I: Inhalable particles, R:

Respirable particles, IFV: Inhalable particles and vapors, T:

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Total dust, V: Vapors, C: Ceiling limit

9. Physical and chemical properties

Physical state : Solid
Color : Colorless

Odour : No information available

Melting point/Freezing point : 40~48℃

Boiling point, initial boiling point and boiling range

: No information available

Flammability : Non-combustible

Range of explosion (lower bound - upper bound)

: No information available

Flash point : No information available
Autoignition temperature : No information available

Decomposition temperature : $100^{\circ}C(-H2O)$

pH : No information available
Kinematic viscosity : No information available

Solubility : Soluble in water(Soluble in dilute sodium hydroxide solution.)

Partition coefficient (n-

octanol/water)

: No information available

Vapor pressure : No information available
Density/Specific gravity : 2.61g/cm3(unhydrous)
Relative vapor density : No information available
Particle characteristics : No information available

Other : F.W.: 284.2

Oxidizing: None

10. Stability and reactivity

Reactivity : No information available

Chemical stability : Stable when stored in sealed container (at room temperature).

Possibility of hazardous

reactions

: No information available

Conditions to avoid : Keep away from direct sunlight. Store in a cool, dark place.

Incompatible materials : No information available Hazardous decomposition : No information available

products

11. Toxicological information

Acute toxicity(oral)

No information available

Acute toxicity(dermal)

No information available

Acute toxicity(inhalation:gases)

No information available

Acute toxicity(inhalation:vapours)

No information available

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Acute toxicity(inhalation:dusts and mists)

No information available

Skin corrosion/Skin irritation

Sodium metasilicate nonahydrate: Category1

Serious eye damage/Eye Irritation

Sodium metasilicate nonahydrate: Category1

Respiratory sensitizer

No information available

Skin sensitizer

No information available

Germ cell mutagenicity

No information available

Carcinogenicity

No information available

Toxic to reproduction/Effects on or via lactation

No information available

Specific target organ toxicity(single exposure)

Sodium metasilicate nonahydrate : Category2(Nervous system)

Specific target organ toxicity(repeated exposure)

No information available

Aspiration hazard

No information available

12. Ecological information

Hazard to the aquatic environment (acute)

No information available

Hazard to the aquatic environment (chronic)

No information available

Hazardous to the ozone layer

No information available

Ecotoxicity/Fish toxicity

No information available

Ecotoxicity/ Invertebrate toxicity

No information available

Ecotoxicity/ Algal toxicity

No information available

Persistence and degradability

No information available

Bioaccumulative potential

No information available

Mobility in soil

No information available

13. Disposal considerations

Remained waste

: Discard in accordance with the standards of the local government and relevant legislation.

A polluted container and packing

: When disposing of empty containers, empty containers are processed in accordance with the standards of the local government as well as the related laws and regulations and waste disposal

method after contents are completely removed.

14. Transport information

UN number : 3253 Guideline Number : 154

Shipping name : DISODIUM TRIOXOSILICATE
UN Class : Class8 Corrosive substances

Packing group : III
Subsidiary risk(s) : -

MARINE POLLUTANT : Not applicable Transport in bulk according to : Not applicable

MARPOL 73/78, Annex II, and the IBC code

Special safety measures for transport or means of transport

: Follow "7. Handling and storage"

: Check no leak of container, handle witout overturning, falling and

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damaging, then reliably prevent from cargo shift.

Domestic regulations

Ground transport: Follow the transportation method specified in the Fire Service Law

and the Industrial Safety and Health Law.

Marine transport : Follow the transportation method specified in the Ship Safety Law.

Air transport : Follow the transportation method specified in the Aviation Law.

15. Regulatory information

Follow relavant national and local regulations.

16. Other information

This "Safety Data Sheet(SDS)" is for provision of information, and it does not represent a guarantee the properties or safeties of the product.

Since not all materials and literature have been investigated, information may be omitted, and changes may occur in the content due to the discovery of new findings or corrections of previous theories.

The information contained herein is based on information in our possession, but we do not guarantee the completeness of the information.

It is subject to revision based on changes in laws and regulations and new findings.

When using this information for important decisions, we recommend that you carefully review the source of the information or verify it through testing.

Values of ingredients, content, physicochemical properties, etc., are not quality assurance values.

Prior to use, please investigate the laws and regulations of the organization, area and country where the product is to be used.

The information is intended to ordinary usage, in case of special handling, sufficient care should be taken.

Special Notes (displayed only if applicable)