



NA Chemical Inc.  
**SAFETY DATA SHEET**

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**Section 5. Fire Fighting Measures**

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Flash point (°F)	N/A
Extinguishing media	Use water spray, dry chemical or CO <sub>2</sub>
Special exposure hazards	N/A
Decomposition products	Alkaline vapors in a fire.
Special Protective equipment for fire fighters	Self contained respiratory protection

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**Section 6. Accidental Release Measures**

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Personal precautions	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal equipment (see section 8).
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewer, waterways, soil, or air).
Methods for cleaning up	
Small Spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large Spill	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillage into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or idatomaceous earth and place in container for disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note see Section 1 for emergency contact information and section 13 for waste disposal.

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**Section 7. Handling and Storage**

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Handling & Storing:	Put appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not breathe vapor or mist. Do not swallow. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or approved alternative made from a compatible material, kept tightly closed when not in use. For Industrial use only.
Storage	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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**Section 8. Exposure Controls / Personal Protective Equipment**

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Ingredient	Exposure limits
Sodium Metasilicate	ACGIH TLV (United States) TWA 1 mg/m <sup>3</sup>
Sodium Hydroxide	TWA: 2 mg/m <sup>3</sup>
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

NA Chemical Inc.  
**SAFETY DATA SHEET**

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**Section 8. Exposure Controls / Personal Protective Equipment (cont'd)**

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<b>Engineering measures</b>	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
<b>Hygiene measures</b>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothes before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>Personal protection</b>	
<b>Respiratory</b>	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
<b>Hands</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
<b>Eyes</b>	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible chemical splash goggles should be worn (unless the assessment indicates a higher degree of protection).
<b>Skin</b>	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Environmental exposure controls</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters, or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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**Section 9. Physical and Chemical Properties**

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<b>Physical state</b>	Powder
<b>Flash point (°F)</b>	N/A
<b>Appearance @ 70°F</b>	White powder
<b>Boiling point (°F)</b>	N/A
<b>Specific Gravity</b>	2.1
<b>Vapor density</b>	N/A
<b>Evaporation rate</b>	N/A
<b>pH</b>	N/A
<b>Solubility in water</b>	Soluble

NA Chemical Inc.  
**SAFETY DATA SHEET**

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**Section 10. Stability and Reactivity**

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**Chemical Stability:** Stable

**Conditions to avoid** This product may react with strong oxidizing agents.

**Incompatible materials** Avoid mixing with strong acids.

**Hazardous decomposition products** None Known

**Hazardous Polymerization** Under normal conditons of stoage and use, hazardous reactions will not occur.

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**Section 11. Toxicological Information**

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**Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
No data provided at this time				

Chronic toxicity  
Conclusion/Summary No data available at this time

Carcinogenicity  
Conclusion/Summary No data available at this time

Mutagenicity  
Conclusion/Summary No data available at this time

Teratogenicity  
Conclusion/Summary No data available at this time

Reproductive toxicity  
Conclusion/Summary No data available at this time

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**Section 12. Ecological Information**

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**Ecotoxicity** No data available at this time

**Aquatic exotoxicity**

**Conclusion/Summary** No data available at this time

**Persistence/degradability**

**Conclusion/Summary** Inorganic. Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica. They combine with ions like Ca, Mg, Fe, Al and others to end up as insoluble compounds similar to constituents of natural soils.

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**Section 13. Disposable Considerations**

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Water disposal The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any-by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Disposal of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and it container must be disposed of in a safe way. Care should be take when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8 Exposure Control/Personal Protection for additional handling information and protection of employees.

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NA Chemical Inc.  
**SAFETY DATA SHEET**

**Section 14. Transportation Information**

Regulatory Information	UN Number	Proper shipping name	Classes	PG*	Label	Additional Information
DOT Classification	UN 1823	Sodium Hydroxide	8	II	Caustic	N/A
IMDG Class						
IATA-DGR Class						

PG\* Packing Group

**Section 15. Regulatory Information**

CAS# 1310-73-2 is listed on the TSCA inventory.

SARA Codes: CAS# 1310-73-2: Immediate, reactive.

CAS# 1310-73-2 is listed as a Hazardous Substance under the CWA Section 311

**Section 16. Other Information**

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