



TEXCHEM INDUSTRIES

OFFICE: 24- A, AGRASEN NAGAR, UDAIPUR, RAJASTHAN

EMAIL: SWAPNIL@TEXCHEMINDUSTRIES.COM

MOBILE: 9928305588

Section 01 - Identification

Product Identifier Sodium Aluminate Solution

Use

Water treatment, paper manufacturing, and petroleum exploration.

Initial Supplier Identifier Texchem Industries

Section 02 - Hazard Identification

GHS-Classification

Skin Corrosion/Irritation Category 1A

Serious Eye Damage/Irritation Category 1

Physical Hazards

Corrosive to Metals Category 1

Danger

Hazards Statements

H314 – Causes severe skin burns and eye damage.

H290 – May be corrosive to metals.

Pictograms

Precautionary Statements

P405 – Store locked up.

P234 – Keep only in original container.

P260 – Do not breathe mist, vapours or spray.

P280 – Wear protective gloves, protective clothing, eye protection, and face protection.

P301 + P330 + P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin.

P363 – Wash contaminated clothing before reuse.

P304 + P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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P310 – Immediately call a POISON CENTER or doctor/physician.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P390 – Absorb spillage to prevent material damage.

P501 – Dispose of contents/container in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.



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Section 03 - Composition / Information on Ingredients

Chemical Name CAS Number Weight % Unique Identifiers

Sodium Aluminate 1302-42-7 45%

Water 7732-18-5 55%

Section 04 - First Aid Measures

Inhalation Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If

breathing is difficult, give oxygen. Seek immediate medical attention.

Skin Contact / Absorption Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists.

Eye Contact Flush immediately with water for at least 30 minutes. Forcibly hold eyelids apart to ensure

complete irrigation of eye tissue. If a contact lens is present, remove only if easy to do so.

Seek immediate medical attention.

Ingestion Immediately rinse mouth out with water. Do not induce vomiting. Give large amounts of

water or milk. Seek immediate medical attention.

Additional Information In all cases you must act rapidly. After first aid measures, consult a physician except in

minor cases of inhalation or skin contact.

Section 05 - Fire Fighting Measures

Suitable Extinguishing Media Product does not burn. Use appropriate extinguishing media for material that is supplying the fuel to the fire.

Unsuitable Extinguishing Media Not Available

Specific Hazards Arising From the Chemical

Hydrogen chloride and oxides of aluminum, carbon, nitrogen, ammonia.

Special Protective Equipment and Precautions for Fire-Fighters

Wear NIOSH-approved self-contained breathing apparatus and protective clothing.

Further Information Do not release runoff from fire control methods to sewers or waterways.



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Section 06 - Accidental Release Measures

Personal Precautions / Protective

Equipment / Emergency

Procedures

Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so. Flush with water to remove any residue.

Environmental Precautions Prevent material from entering sewers.

Methods and Materials for

Containment and Cleaning Up

Neutralize with sodium carbonate, caution should be taken as carbon dioxide may form.

Absorb spill with inert material like dry sand or earth, then place in a chemical waste container.

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Section 07 - Handling and Storage

Precautions for Safe Handling Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.

Conditions for Safe Storage Store in a well ventilated area at temperatures above 10°C and below 35°C. Store away from incompatible materials. Keep separate from populated work areas. Do not store in containers made of aluminum, tin or zinc or alloys of these.

Incompatibilities Do not mix with strong acids without preliminary dilution and agitation to prevent violent or explosive reaction. Product can react explosively with aldehydes and many other organic chemicals. Aluminium, tin, zinc and alloys containing these metals corrode in contact with the product.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component Regulation Type of Listing Value

Aluminum ACGIH TWA 1mg/m³

OSHA PEL 15mg/m³(total dust)

PEL 5mg/m³(respirable fraction)

Engineering Control(s)

Ventilation Requirements Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.

Other Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.

Protective Equipment

Eyes/Face Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye



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injury.

Hand Protection Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all

times. Wash contaminated clothing and dry thoroughly before reuse.

Skin and Body Protection Body suite, aprons, and/or coveralls of chemical resistant material should be worn at all

times. Wash contaminated clothing and dry thoroughly before reuse.

Impervious boots of chemically resistant material should be worn at all times. No special footwear is required other than what is mandated at place of work.

Respiratory Protection Respiratory protection not normally required under normal use. If mist is being generated,

wear NIOSH approved full face, air purifying respirator.

Thermal Hazards Not Available

Section 09 - Physical and Chemical Properties

Appearance

Physical State Liquid

Colour Clear, straw-coloured

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Odour Odourless

Odour Threshold Not Applicable

Property

pH 12.0 for a 1.0% solution

Melting Point/Freezing Point 1650°C

Initial Boiling Point and Boiling Range~ 115°C

Flash Point Not Applicable

Evaporation Rate Not Available

Flammability Non-Flammable

Upper Flammable Limit Not Applicable

Lower Flammable Limit Not Applicable

Vapour Pressure (mm Hg, 20°C) Not Available

Vapour Density (Air=1) 1.0

Relative Density Not Available

Solubility(ies) Completely miscible

Partition Coefficient: n-octanol/water Not Available

Auto-ignition Temperature Not Applicable

Decomposition Temperature Not Available

Viscosity Not Available

Explosive Properties Not Applicable



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Specific Gravity (Water=1) 1.52 at 25°C

% Volatiles by Volume Not Available

Formula NaAlO₂

Molecular Weight 81.97

Section 10 - Stability and Reactivity

Reactivity Not Available

Stability Product is stable

Possibility of Hazardous

Reactions

Hazardous polymerization does not occur.

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Conditions to Avoid Contact with strong mineral acids, excessive heat. Do not mix with strong acids without

preliminary dilution and agitation to prevent violent or explosive reaction. Product can react

explosively with aldehydes and many other organic chemicals. Avoid contact with mineral

acids, excessive heat and bases/alkalis.

Incompatible Materials Do not mix with strong acids without preliminary dilution and agitation to prevent violent or

explosive reaction. Product can react explosively with aldehydes and many other organic

chemicals. Aluminium, tin, zinc and alloys containing these metals corrode in contact with

the product.

Hazardous Decomposition

Products

Decomposes to toxic fumes of oxides of sodium (Na₂O) when a thermal decomposition takes place.

Section 11 - Toxicological Information

Acute Toxicity

Component Oral LD₅₀ Dermal LD₅₀ Inhalation LC₅₀

Sodium Aluminate Not Available Not Available Not Available

Chronic Toxicity – Carcinogenicity

Component IARC

Sodium Aluminate Not considered to be carcinogenic by NTP, IARC, and OSHA.

Skin Corrosion/Irritation Corrosive. Capable of producing severe burns, blisters, ulcers



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and permanent scarring.

Ingestion Ingestion can cause corrosive burns to the mouth, throat, and esophagus.

Small amount

of product which enters the lungs during ingestion or vomiting (aspiration) can cause serious lung injury and death.

Inhalation Damage to the upper respiratory tract and lungs may result from exposure to the mist or

dust from this product.

Serious Eye Damage/Irritation Corrosive. Capable of producing serious eye burns and permanent damage, including blindness.

Respiratory or Skin Sensitization Product is not a sensitizer

Germ Cell Mutagenicity Not Available

Reproductive Toxicity Not a known teratogen.

STOT-Single Exposure Damage to the upper respiratory tract and lungs may result from exposure to the mist or

dust from this product.

STOT-Repeated Exposure Repeated and prolonged exposure of the skin or eyes to low concentrations of liquid can cause dermatitis and conjunctivitis.

Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Aspiration Hazard Not Available

Synergistic Materials Not Available

Section 12 – Ecological Information

Ecotoxicity

Component Toxicity to Algae Toxicity to Fish Toxicity to Daphnia and Other Aquatic Invertebrates

Sodium Aluminate Not Available LC₅₀(Gambusia affinis, 96hr):

111 mg/L

Not Available

Biodegradability When released into the soil, this material is not expected to biodegrade.

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Bioaccumulation Not Available

Mobility When released into the soil, this material may leach into groundwater.

Other Adverse Effects Not Available



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Section 13 – Disposal Considerations

Waste From Residues/Unused

Products

Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Contaminated Packaging Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 14 – Transport Information

UN Number UN1819

UN Proper Shipping Name SODIUM ALUMINATE SOLUTION

Transport Hazard Class(es) 8

Packaging Group II

Environmental Hazards Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.

Special Precautions Not Available

Transport in Bulk Not Available

Additional Information Packing Group Limited Quantity Index

II 1 L

III 5 L

TDG

Other Secure containers (full and/or empty) with suitable hold down devices during shipment and

ensure all caps, valves, or closures are secured in the closed position.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 14 of this

MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods

Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the

references at section 16 of this MSDS / SDS.



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Section 15 – Regulatory Information

NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED

Section 16 – Other Information

References: Not available.

Other Special Considerations: Not available.

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