

SAFETY DATA SHEET

Revision date 03-Jun-2021 Revision Number 4

1. Identification

Product identifier

Product name WS-128

Other means of identification

Product code 3213M

Synonyms Liquid sodium aluminate

Recommended use of the chemical and restrictions on use

Recommended use [RU] No information available Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Anderson Chemical Company

325 South Davis Ave. Litchfield, MN 55355 320-693-2477

Hours: Monday-Friday 8:00-5:00 CST (Central Standard Time)

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC: (800) 424-9300

Contact Point accomn.com

2. Hazard(s) identification

Classification

Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

DANGER

Hazard statements

Causes severe skin burns and eye damage



Appearance Clear to slightly hazy

Physical state Liquid

Odor No appreciable odor

Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed: Call a POISON CENTER or doctor/physician

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown acute toxicity 32% of the mixture consists of ingredient(s) of unknown toxicity

Other information

Not applicable.

3. Composition/information on ingredients

Substance

Synonyms

Liquid sodium aluminate.

Chemical name	CAS No	Weight-%	Trade secret
Water	7732-18-5	60	*
Sodium aluminum oxide	1302-42-7	32	*
Sodium Hydroxide	1310-73-2	8	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret. While some components are claimed as trade secret in accordance with the provision of OSHA 29 CFR 1910.1200(i), all known hazards are clearly communicated within this document.

4. First-aid measures

Description of first aid measures

General advice Get medical attention if irritation or other symptoms occur. Show this safety data sheet to

the doctor in attendance.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult,

(trained personnel should) give oxygen. Call physician immediately.

Remove contact lenses, if worn. Immediately flush with plenty of water for at least 15 Eve contact

> minutes, holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. Seek medical attention if irritation

should develop.

Skin contact Immediately flush skin with plenty of soap and water for at least 15 minutes.

contaminated clothing and footwear. Wash contaminated clothing before reuse. If skin

irritation occurs: Get medical advice/attention.

Ingestion Do not induce vomiting. Give large amounts of water followed by milk if available. If

vomiting should occur spontaneously, keep airway clear. Get medical attention. Never give

anything by mouth to an unconscious person.

Wear personal protective clothing (see section 8). Self-protection of the first aider

Most important symptoms and effects, both acute and delayed

Symptoms Depending on the concentration, repeated ingestion may cause effects as with acute

exposure. Effects depend on concentration and duration of exposure. Repeated or prolonged skin contact may result in dermatitis or effects similar to acute exposure.

Repeated exposure by inhalation may cause inflammatory ulcerative changes to the mouth and possibly bronchial and gastrointestinal disturbances. Repeated or prolonged eye contact may result in conjunctivitis or effects similar to acute exposure. Inhalation of corrosive substances may cause irritation of the respiratory tract with coughing, choking, pain and possible burns of the mucus membrane. In some cases pulmonary edema may develop, either immediately or more often within a period of 5-72 hours. The symptoms may include tightness in the chest, frothy sputum cyanosis, and dizziness. Physical findings may include low blood pressure and high pulse. Severe cases may be fatal. Eye and skin contact may cause severe irritation, pain and burns. Ingestion may cause immediate pain and severe burns of the mucous membrane. There may be discoloration of the tissues. Swallowing and speech may be difficult at first and then almost impossible. The effects on

Edema of the epiglottis and shock may occur.

Indication of any immediate medical attention and special treatment needed

Aluminum soluble salts may cause gastroenteritis if ingested. Treatment includes the use Note to physicians

of demulcents. Note: Consideration should be given to the possibility that overexposure

the esophagus and gastrointestinal tract may range from irritation to severe corrosion.

to materials other than this product may have occurred.

5. Fire-fighting measures

Suitable Extinguishing Media Not combustible. Use appropriate extinguishing media for material that is supplying fuel.

> Use water spray to cool the surrounding area and maintain fire temperature below decomposition temperature. Water Spray, Carbon Dioxide, Foam, Dry Chemical.

CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media No information available.

Specific hazards arising from the May produce hazardous fumes or hazardous decomposition products.

chemical

Explosion data

Large Fire

Sensitivity to mechanical impact None.

Sensitivity to static discharge

Special protective equipment for

fire-fighters

Full protective clothing and approved self-contained breathing apparatus required for firefighting personnel.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear suitable protective clothing and gloves.

Other information Do not allow liquid to enter streams or waterways.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Build dikes as necessary to contain flow

of large spills. Do not allow liquid to enter streams or waterways.

Methods for cleaning up Clear spills immediately. For small spills, neutralize with weak acidic material such as

vinegar, an inert material to absorb, or wash product to a chemical sewer. Place

contaminated materials into containers and store in a safe place to await proper disposal.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Keep container closed when not in use. Keep away from open flames, hot surfaces and

sources of ignition. Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, gloves, and protective clothing when handling. Wash thoroughly after handling. Do not breathe mist or spray. Use with adequate ventilation and employ respiratory protection where mist or spray may be generated. Do not take internally. FOR INDUSTRIAL USE

ONLY.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed when not in use. Store in a cool, dry place away from direct

heat.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Sodium Hydroxide	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³	IDLH: 10 mg/m ³
1310-73-2		(vacated) Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controlsLocal exhaust ventilation as necessary to maintain exposures to within applicable limits.

Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices', most recent edition, for details. If there are no applicable or established exposure limit requirements or guidelines, general ventilation should be sufficient.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear chemical splash goggles and face shield (when eye and face contact is possible due

to splashing or spraying of material).

Hand protection Appropriate chemical resistant gloves should be worn.

Skin and body protection Standard work clothing and work shoes.

with OSHA Respiratory Protection Requirements under 29 CFR 1910.134. If there are no applicable or established exposure limit requirements or guidelines, general ventilation

should be sufficient.

Environmental exposure controls Do not allow liquid to enter streams or waterways.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or

smoke when using this product. Take off contaminated clothing and wash it before reuse. Ensure that eyewash stations and safety showers are close to the workstation location.

No information available

Brookfield @ 25 °C

None known

None known

None known

None known

None known

None known

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid

Appearance Clear to slightly hazy

Color Amber

Odor No appreciable odor Odor threshold No information available

Property Values Remarks • Method No information available Hq ~ 14 < -32.2 °C (< -26 °F) No information available Melting point / freezing point Boiling point / boiling range 116 °C (241 °F) No information available Not applicable No data available No information available Flash point No information available No data No information available **Evaporation rate**

available

No data available

Flammability (solid, gas) Not applicable No data available

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive

limits

Vapor pressure
Relative vapor density
No data available
No data available

Relative vapor density
Relative density

No data available

1.4 - 1.6

Water solubility

No data available Complete;

Water solubility

Solubility(ies)

Partition coefficient

No data available Comp
No information available
No data available

Autoignition temperature Not applicable No data available Decomposition temperature No information available -

Kinematic viscosity

No data available

Dynamic viscosity

200 - 400 cps

Other information

Explosive properties
Oxidizing properties
No information available
11.6 - 13.3 lbs./gal.
Bulk density
No information available

10. Stability and reactivity

Reactivity No data available.

Chemical stability Stable under normal conditions of handling, use and transportation.

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization Not anticipated under normal or recommended handling and storage conditions.

Conditions to avoidNone known based on information supplied.

Incompatible materials Strong acids.

Hazardous decomposition products Thermal decomposition may release toxic and/or hazardous gases.

11. Toxicological information

Information on likely routes of exposure

Product Information Specific test data for the substance or mixture is not available.

Inhalation Inhalation of mist or spray may irritate respiratory tract and may cause burns and difficulty

breathing.

Eye contact Direct contact may cause severe irritation, pain and burns, possibly severe. May result in

permanent blindness. The degree of injury depends on the concentration and duration of

contact. The full extent of the injury may not be immediately apparent.

Skin contactCorrosive to skin. Direct contact may cause severe irritation, pain and possibly burns.

Ingestion Causes burns of the mouth, throat and stomach. Will cause burns of mucous membreanes

of gastrointestinal tract, with nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Burning, Itching, Rashes, Redness, Blindness, Coughing and/ or wheezing, Difficulty in

breathing. Pain or irritation. Blistering may occur. Abdominal pain. Nausea and vomiting.

Causes serious eye damage.

Acute toxicity

Numerical measures of toxicity

No information available

ATEmix (dermal) 11957 mg/kg

Unknown acute toxicity 32% of the mixture consists of ingredient(s) of unknown toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	-	•
Sodium Hydroxide 1310-73-2	= 325 mg/kg (Rat)	= 1350 mg/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Causes burns.

Serious eye damage/eye irritation Risk of serious damage to eyes.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

CarcinogenicityThis product does not contain any components in concentrations greater than or equal to

0.1% that are listed as known or suspected carcinogens by NTP, IARC, ACGIH, or OSHA.

Reproductive toxicity No information available.

Developmental toxicityNo information available.

STOT - single exposure No information available.

STOT - repeated exposureNo information available.

Target organ effects Eyes, Skin, Gastrointestinal tract (GI), Respiratory system.

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects No information available.

12. Ecological information

Ecotoxicity The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium Hydroxide 1310-73-2		LC50 (96 h static) = 45.4 mg/L (Oncorhynchus mykiss)		-

Persistence and degradability Not determined. No information available.

Bioaccumulation No information available.

Mobility Not determined. No information available.

Other adverse effects No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused

products

Disposal should be in accordance with applicable regional, national and local laws and

regulations. Dispose of in accordance with federal, state and local regulations.

Contaminated packaging Since empty containers retain product residue, follow label warnings even after container is

emptied.

US EPA Waste Number D002 (Corrosivity).

14. Transport information

DOT Regulated

UN number or ID number UN1819
Proper shipping name UN1819
Sodium Aluminate Solution

Transport hazard class(es)
Packing group

Emergency Response Guide

Number

8 II 154

TDG Regulated UN number or ID number UN1819

UN proper shipping name Sodium Aluminate Solution

Transport hazard class(es) Packing group Ш

MEX

Notes Contact manufacturer.

Technical Name

IATA Regulated **UN** number or ID number UN1819

UN proper shipping name Sodium Aluminate Solution

Transport hazard class(es) Packing group Ш **ERG Code** 8L

IMDG Regulated UN number or ID number UN1819

UN proper shipping name Sodium Aluminate Solution

Transport hazard class(es) Packing group Ш

EmS-No F-A: S-B

15. Regulatory information

International Inventories

TSCA All ingredients are on the inventory or exempt from listing.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Water	7732-18-5	Present	Active
Sodium aluminum oxide	1302-42-7	Present	Active
Sodium Hydroxide	1310-73-2	Present	Active

DSL/NDSL All ingredients are on the DSL inventory or exempt from listing. None of the ingredients are

on the NDSL inventory.

EINECS/ELINCS All ingredients are on the EINECS inventory or are exempt from listing. None of the

ingredients are on the ELINCS inventory.

ENCS All ingredients are on the inventory or exempt from listing. **IECSC** All ingredients are on the inventory or exempt from listing. All ingredients are on the inventory or exempt from listing. **KECL** All ingredients are on the inventory or exempt from listing. **PICCS AICS** All ingredients are on the inventory or exempt from listing.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium Hydroxide 1310-73-2	1000 lb	-	-	Х

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Sodium Hydroxide 1310-73-2	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Sodium Hydroxide	X	X	X
1310-73-2			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPAHealth hazards3Flammability0Instability0Special hazardsHMISHealth hazards3Flammability0Physical hazards0Personal protectionX

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date 03-Jun-2021

Revision Note No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet