

SAFETY DATA SHEET

Issue Date 14-Mar-2014

Revision date 17-Mar-2021

Version 4

1. Identification

Product identifier

Product Name WS-122B

Other means of identification

Product Code(s) 3215J

UN number or ID number UN3264

Synonyms Inorganic metal salt coagulant/flocculant in aqueous solution

Recommended use of the chemical and restrictions on use

Recommended use No information available

Restrictions on use No information available None known

Details of the supplier of the safety data sheet

Manufacturer Address

Anderson Chemical Company, 325 South Davis Avenue, Litchfield, MN 55355 (320-693-2477)

Emergency telephone number

Chemtrec 1-800-424-9300

2. Hazard(s) identification

Classification

| | |
|-----------------------------------|------------|
| Skin corrosion/irritation | Category 1 |
| Serious eye damage/eye irritation | Category 1 |
| Corrosive to metals | Category 1 |

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Danger**Hazard statements**

Causes severe skin burns and eye damage
May be corrosive to metals



Appearance Opaque

Physical state Liquid

Odor No appreciable odor

Precautionary Statements - Prevention

Do not breathe dusts or mists
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Keep only in original container

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
Wash contaminated clothing before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
Absorb spillage to prevent material damage

Precautionary Statements - Storage

Store locked up
Store in corrosive resistant container with a resistant inner liner

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

May be harmful if swallowed.

3. Composition/information on ingredients

Substance**Synonyms**

Inorganic metal salt coagulant/flocculant in aqueous solution.

| Chemical name | CAS No | Weight-% | Trade secret |
|-------------------------|--------------|----------|--------------|
| Trade Secret Ingredient | Trade secret | 25 - 35% | * |
| Trade Secret Ingredient | Trade secret | < 10% | * |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures**Inhalation**

If inhaled, remove to fresh air. Break an amyl nitrate pearl in a cloth and hold under nose for 15 seconds. Repeat five times at 15 minute intervals. If not breathing give artificial respiration. Get immediate medical attention. If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give

oxygen. Get medical attention. Call a physician immediately.

| | |
|---------------------|---|
| Eye contact | Remove contact lenses, if worn. Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. Seek medical advice immediately. |
| Skin contact | None known. In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. If skin irritation occurs: Get medical advice/attention. |
| Ingestion | None known. Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person. If swallowed, induce vomiting immediately by giving two glasses of water and sticking fingers down throat; never give anything to an unconscious person. Get medical attention. Get medical attention. |

Most important symptoms and effects, both acute and delayed

| | |
|-----------------|--|
| Symptoms | May aggravate existing skin, eye, and lung conditions. Persons with kidney disorders have an increased risk from exposure based on general information found on aluminum salts. Possible eye, skin, and respiratory tract irritation or burns. |
|-----------------|--|

Indication of any immediate medical attention and special treatment needed

| | |
|---------------------------|--|
| Note to physicians | Aluminum soluble salts may cause gastroenteritis if ingested. Treatment includes the use of demulcents. Note: Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. |
|---------------------------|--|

5. Fire-fighting measures

| | |
|---|---|
| Suitable Extinguishing Media | None - does not burn. Water fog, carbon dioxide, foam, dry chemical. |
| Large Fire | CAUTION: Use of water spray when fighting fire may be inefficient. |
| Unsuitable extinguishing media | No information available. |
| Specific hazards arising from the chemical | May produce hazardous fumes or hazardous decomposition products. |
| Explosion data | |
| Sensitivity to mechanical impact | None. |
| Sensitivity to static discharge | None. |
| 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 adequate personal protective clothing and equipment. Approved breathing apparatus may be necessary. |
|-----------------------------|--|

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. |
| Methods for cleaning up | Clear spills immediately. For small spills, use soda ash to neutralize, an inert material to absorb. Place contaminated materials into containers and store in a safe place to await |

proper disposal. Caution: Use of soda ash may generate carbon dioxide gas. Provide adequate ventilation to spill area.

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Keep container closed when not in use. Keep away from heat and open flame. Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, gloves, and protective clothing when handling. Wash thoroughly after handling. Avoid breathing vapors or mists. Use with adequate ventilation and employ respiratory protection where mist or spray may be generated. FOR INDUSTRIAL USE ONLY.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Store in a cool, dry place away from direct heat. Keep container closed when not in use. Do not store in unlined metal containers. Product may slowly corrode iron, brass, copper, aluminum, mild steel, and stainless steel.

8. Exposure controls/personal protection

Control parameters

Exposure Limits

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH |
|-------------------------|-----------------------------|---|-----------------------------|
| Trade Secret Ingredient | - | (vacated) TWA: 2 mg/m ³ Al Aluminum | TWA: 2 mg/m ³ Al |
| Trade Secret Ingredient | TWA: 1 mg/m ³ Fe | (vacated) TWA: 1 mg/m ³ Fe | TWA: 1 mg/m ³ Fe |

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 controls

Use engineering controls as per code of federal regulations, labor part 1910.94. Exhaust ventilation. Not determined. 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

None known. Wear safety glasses or goggles to protect against exposure. Safety glasses. Safety glasses (with side shields). Face shield. Wear chemical splash goggles and face shield (when eye and face contact is possible due to splashing or spraying of material).

Hand protection

None known. Rubber gloves. Appropriate chemical resistant gloves should be worn. Oil-resistant gloves.

Skin and body protection

Not determined. Standard work clothing and work shoes.

Respiratory protection

Use only in well-ventilated areas. Use NIOSH approved dust respirator. None known. If exposures exceed the PEL or TLV, use NIOSH/MSHA approved respirator in accordance 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.

General hygiene considerations Take off contaminated clothing and wash before reuse.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid
Appearance Opaque
Color Reddish brown
Odor No appreciable odor
Odor threshold No information available

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|---|--|--------------------------|
| pH | 2.0 - 3.0 | as is |
| Melting point / freezing point | -12 °C / 10 °F | |
| Boiling point / boiling range | 104 °C / 220 °F | |
| Flash point | Not applicable No data available | No information available |
| Evaporation rate | No information available No data available | No information available |
| Flammability (solid, gas) | Not applicable No data available | No information available |
| Flammability Limit in Air | | None known |
| Upper flammability or explosive limits | No data available | |
| Lower flammability or explosive limits | No data available | |
| Vapor pressure | No data available | No information available |
| Relative vapor density | No data available | No information available |
| Relative density | 1.300 - 1.320 | |
| Water solubility | Soluble below pH 4 | |
| Solubility(ies) | No information available | None known |
| Partition coefficient | No data available | None known |
| Autoignition temperature | Not applicable No data available | None known |
| Decomposition temperature | No information available - | None known |
| Kinematic viscosity | No data available | No information available |
| Dynamic viscosity | 5 - 15 cps | Brookfield |
| <u>Other information</u> | | |
| Explosive properties | No information available | |
| Oxidizing properties | No information available | |
| Softening point | No information available | |
| Molecular weight | No information available | |
| VOC Content (%) | No information available | |
| Liquid Density | 10.8 - 11.0 lbs./gal. | |
| Bulk density | No information available | |

10. Stability and reactivity

Reactivity No data available.

Chemical stability Stable.

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization No.

Conditions to avoid Not determined. Keep away from any contact with water. None known.

Incompatible materials Alkalis.

Hazardous decomposition products Thermal decomposition may release toxic and/or hazardous gases such as aluminum, Cl₂, and HCl.

11. Toxicological information

Information on likely routes of exposure

| | |
|---------------------|--|
| Inhalation | Inhalation of mist or spray may irritate respiratory tract and may cause burns and difficulty breathing. |
| Eye contact | Based on pH, this product is expected to cause severe eye irritation, possibly resulting in burns and eye damage. Prolonged exposure to Aluminum salts may cause conjunctivitis. |
| Skin contact | Prolonged and/or repeated contact will cause severe skin irritation and burns. |
| Ingestion | May be harmful if swallowed. May cause burns of the mouth, throat and stomach. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

No information available

ATEmix (oral) 3335 mg/kg

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-------------------------|----------------------|-------------|-----------------|
| Trade Secret Ingredient | > 2000 mg/kg (Rat) | - | - |
| Trade Secret Ingredient | = 450 mg/kg (Rat) | - | - |

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

| | |
|--|--|
| Skin corrosion/irritation | Causes severe 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. |
| Carcinogenicity | This 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 toxicity | No information available. |
| STOT - single exposure | No information available. |
| STOT - repeated exposure | No information available. |
| 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 |
|-------------------------|----------------------|--|----------------------------|---|
| Trade Secret Ingredient | - | LC50: =186mg/L (96h, Danio rerio) | - | - |
| Trade Secret Ingredient | -- | LC50 (96 h semi-static) 20.95 - 22.56 mg/L (Pimephales promelas) LC50 (96 h semi-static) = 20.26 mg/L (Lepomis macrochirus) | - | EC50: =27.9mg/L (48h, Daphnia magna) EC50: =9.6mg/L (48h, Daphnia magna) |

Persistence and degradability Not determined. No information available.

Bioaccumulation No information available.

| Chemical name | Partition coefficient |
|-------------------------|-----------------------|
| Trade Secret Ingredient | -4 |

Mobility Not determined. No information available.

Other adverse effects No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused products Dispose of in accordance with federal, state and local regulations. Federal, state and local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected. Dispose of product in an approved chemical waste landfill or incinerate in accordance with applicable Federal, state and local regulations.

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

14. Transport information

DOT

Regulated
UN number or ID number UN3264
Proper shipping name Corrosive Liquid, Acidic, Inorganic, N.O.S. (Polyaluminum Iron Halide Solution)
Transport hazard class(es) 8
Packing group III
DOT Reportable Quantity lbs. (calculated) 14,800 lb as is
Emergency Response Guide Number 154

TDG

Regulated
UN number or ID number UN3264
UN proper shipping name Corrosive Liquid, Acidic, Inorganic, N.O.S. (Polyaluminum Iron Halide Solution)
Transport hazard class(es) 8
Packing group III

MEX

Technical Name

| | |
|-----------------------------------|---|
| IATA | Regulated |
| UN number or ID number | UN3264 |
| UN proper shipping name | Corrosive Liquid, Acidic, Inorganic, N.O.S. (Polyaluminum Iron Halide Solution) |
| Transport hazard class(es) | 8 |
| Packing group | III |
| ERG Code | 8L |
| IMDG | Regulated |
| UN number or ID number | UN3264 |
| UN proper shipping name | Corrosive Liquid, Acidic, Inorganic, N.O.S. (Polyaluminum Iron Halide Solution) |
| Transport hazard class(es) | 8 |
| Packing group | III |
| EmS-No | F-A; S-B |

15. Regulatory information**International Inventories**

| | |
|----------------------|--|
| TSCA | All ingredients are on the inventory or exempt from listing. |
| 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. |
| KECL | All ingredients are on the inventory or exempt from listing. |
| PICCS | All ingredients are on the inventory or exempt from listing. |
| 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 |
|---------------|-----------------------------|------------------------|---------------------------|----------------------------|
| | | | | |

| | | | | |
|-------------------------|---------|---|---|---|
| Trade Secret Ingredient | 1000 lb | - | - | X |
|-------------------------|---------|---|---|---|

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) |
|-------------------------|--------------------------|------------------------------------|---|
| Trade Secret Ingredient | 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 |
|-------------------------|------------|---------------|--------------|
| Trade Secret Ingredient | - | - | X |
| Trade Secret Ingredient | X | X | X |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

| | | | | |
|-------------|-------------------------|-----------------------|---------------------------|------------------------------|
| NFPA | Health hazards 2 | Flammability 0 | Instability 0 | Special hazards COR |
| HMIS | Health hazards 2 | Flammability 0 | Physical hazards 0 | Personal protection B |

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 17-Mar-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