

Revision date 03-Jul-2025

Revision Number 12

**1. Identification****Product identifier****Product Name** WS-137**Other means of identification****Product Code(s)** 3204J 1**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** Coagulating and Flocculating agent.**Restrictions on use** 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 2
Serious eye damage/eye irritation	Category 2
Corrosive to metals.	Category 1

**Hazards not otherwise classified (HNOC)**

Not applicable.

**Label elements****WARNING****Hazard statements**

Causes skin irritation  
Causes serious eye irritation.  
May be corrosive to metals.



**Appearance** Clear

**Physical state** Liquid

**Odor** No appreciable odor

#### Precautionary Statements - Prevention

Wash hands, face and any exposed skin thoroughly after handling. Do not touch eyes.  
Do not eat, drink or smoke when using this product.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Keep only in original packaging.

#### Precautionary Statements - Response

IF ON SKIN: Wash with plenty of soap and water.  
Specific treatment (See Section 4. First aid measures - Ingestion).  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical help.  
Take off contaminated clothing and wash it before reuse.  
Absorb spillage to prevent material damage.  
Absorb spillage to prevent material damage.

#### Precautionary Statements - Storage

Store in corrosive resistant container with a resistant inner liner.

#### Precautionary Statements - Disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### 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%	*

\*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**

<b>Inhalation</b>	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 (trained personnel should) give artificial respiration. Get immediate medical attention. If inhaled, remove to fresh air. If not breathing (trained personnel should) give artificial respiration, preferably mouth-to-mouth. If breathing is difficult (trained personnel should) give oxygen. Get medical attention. Call a physician immediately.
<b>Eye contact</b>	In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	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.
<b>Ingestion</b>	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**

<b>Symptoms</b>	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.
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**Indication of any immediate medical attention and special treatment needed**

<b>Note to physicians</b>	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.
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**5. Fire-fighting measures**

<b>Suitable Extinguishing Media</b>	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.
<b>Large Fire</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.
<b>Specific hazards arising from the chemical</b>	May produce hazardous fumes or hazardous decomposition products. May react with metals to release flammable hydrogen gas.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	None.
<b>Sensitivity to static discharge</b>	None.
<b>Special protective equipment for fire-fighters</b>	Full protective clothing and approved self-contained breathing apparatus required for firefighting personnel.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Wear adequate personal protective clothing and equipment. Approved breathing apparatus may be necessary.
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**Methods and material for containment and cleaning up**

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so. Build dikes as necessary to contain flow of large spills.
<b>Methods for cleaning up</b>	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**

<b>Advice on safe handling</b>	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.
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**Conditions for safe storage, including any incompatibilities**

<b>Storage Conditions</b>	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.
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**8. Exposure controls/personal protection****Control parameters**

<b>Exposure Limits</b>	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.
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Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Trade Secret Ingredient	-	(vacated) TWA: 2 mg/m <sup>3</sup> Al Aluminum	TWA: 2 mg/m <sup>3</sup> Al

**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**

<b>Engineering controls</b>	Use engineering controls as per code of federal regulations, labor part 1910.94. Exhaust ventilation. If there are no applicable or established exposure limit requirements or guidelines, general ventilation should be sufficient.
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**Individual protection measures, such as personal protective equipment**

<b>Eye/face protection</b>	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).
<b>Hand protection</b>	Rubber gloves. Appropriate chemical resistant gloves should be worn. Oil-resistant gloves.

<b>Skin and body protection</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	Use only in well-ventilated areas. Use NIOSH approved dust respirator. 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.
<b>General hygiene considerations</b>	Take off contaminated clothing and wash before reuse.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid
<b>Appearance</b>	Clear
<b>Color</b>	Colorless to yellow
<b>Odor</b>	No appreciable odor
<b>Odor threshold</b>	Not applicable.

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	2.0 - 3.0	As is
<b>Melting point / freezing point</b>	< -12 °C / 10 °F	
<b>Boiling point / boiling range</b>	~ 104 °C / 220 °F	
<b>Flash point</b>	Not applicable.	
<b>Evaporation rate</b>	Not determined.	
<b>Flammability (solid, gas)</b>	Not applicable.	
<b>Flammability Limit in Air</b>		
Upper flammability or explosive limits	Not applicable.	
Lower flammability or explosive limits	Not applicable.	
<b>Vapor pressure</b>	Not determined.	
<b>Relative vapor density</b>	Not determined.	
<b>Relative density</b>	1.19 - 1.21	
<b>Water solubility</b>	Soluble below pH 4	
<b>Solubility(ies)</b>		
<b>Partition coefficient</b>	Not determined.	
<b>Autoignition temperature</b>	Not applicable.	
<b>Decomposition temperature</b>	Not determined. -	
<b>Kinematic viscosity</b>	Not determined.	
<b>Dynamic viscosity</b>	20 - 10 cps	Brookfield @ 25 °C

### Other information

<b>Explosive properties</b>	Not an explosive.
<b>Oxidizing properties</b>	Not expected to be oxidizing based on the chemical structure.
<b>VOC Content (%)</b>	No information available
<b>Liquid Density</b>	9.92 - 10.09 lbs./gal.

## 10. Stability and reactivity

<b>Reactivity</b>	Reacts with strong alkalis. May react with metals to release flammable hydrogen gas.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Hazardous polymerization</b>	No.
<b>Conditions to avoid</b>	Excessive heat. Contact with certain metals produces flammable hydrogen gas.

**Incompatible materials** Alkalies. Strong bases. Strong oxidizing agents. Metals.

**Hazardous decomposition products** Thermal decomposition may release toxic and/or hazardous gases such as aluminum, Cl<sub>2</sub>, and HCl.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Inhalation of mist or vapor may cause respiratory tract irritation.
<b>Eye contact</b>	May cause moderate eye irritation that can become severe with prolonged contact. Prolonged exposure to Aluminum salts may cause conjunctivitis.
<b>Skin contact</b>	Prolonged and/or repeated contact may cause skin irritation.
<b>Ingestion</b>	May cause irritation of the mouth, throat and stomach. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Symptoms</b>	Adverse symptoms may include the following;
	Eye Contact: watering, redness, irritation and possible burns.
	Skin contact: irritation, rash, redness, itching, dermatitis, burning sensation and burns.
	Ingestion: stomach pain, nausea, vomiting and diarrhea.
	Inhalation: Respiratory irritation, coughing, wheezing and difficulty breathing.

### Acute toxicity

#### Numerical measures of toxicity

No information available

The following values are calculated based on chapter 3.1 of the GHS document .

**ATEmix (oral)** 5720 mg/kg

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

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

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

<b>Skin corrosion/irritation</b>	May cause burns or irritation.
<b>Serious eye damage/eye irritation</b>	May cause eye damage or irritation.
<b>Respiratory or skin sensitization</b>	No data available.
<b>Germ cell mutagenicity</b>	No data available.
<b>Carcinogenicity</b>	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.

<b>Reproductive toxicity</b>	No data available.
<b>Developmental toxicity</b>	No data available.
<b>STOT - single exposure</b>	No data available.
<b>STOT - repeated exposure</b>	No data available.
<b>Aspiration hazard</b>	No data available.
<b>Other adverse effects</b>	None known.
<b>Interactive effects</b>	None known.

## 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)	-	-

<b>Persistence and degradability</b>	Not determined.
<b>Bioaccumulation</b>	No information available.
<b>Mobility</b>	Not determined.
<b>Other adverse effects</b>	No information available.

## 13. Disposal considerations

### Waste treatment methods

<b>Waste from residues/unused products</b>	. 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.
<b>Contaminated packaging</b>	Since empty containers retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

<b>DOT</b>	Regulated
<b>UN number or ID number</b>	UN3264
<b>Proper shipping name</b>	Corrosive liquid, acidic, inorganic, N.O.S. (Polyaluminum chloride solution)
<b>Transport hazard class(es)</b>	8
<b>Packing group</b>	III
<b>Emergency Response Guide</b>	154

**Number**

**TDG**  
**UN number or ID number** Regulated  
 UN3264  
**UN proper shipping name** Corrosive liquid, acidic, inorganic, N.O.S. (Polyaluminum chloride solution)  
**Transport hazard class(es)** 8  
**Packing group** III

**Technical Name**  
**Description** Polyaluminum chloride solution.

**IATA**  
**UN number or ID number** Regulated  
 UN3264  
**UN proper shipping name** Corrosive liquid, acidic, inorganic, N.O.S. (Polyaluminum chloride solution)  
**Transport hazard class(es)** 8  
**Packing group** III  
**ERG Code** 8L

**IMDG**  
**UN number or ID number** Regulated  
 UN3264  
**UN proper shipping name** Corrosive liquid, acidic, inorganic, N.O.S. (Polyaluminum chloride 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.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Water	7732-18-5	Present	Active
Trade Secret Ingredient	-	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.

**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 does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations****U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable.

**16. Other information**

<b><u>NFPA</u></b>	<b>Health hazards</b> 2	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Special hazards</b> COR
<b><u>HMIS</u></b>	<b>Health hazards</b> 2	<b>Flammability</b> 0	<b>Physical hazards</b> 0	<b>Personal protection</b> 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 03-Jul-2025

Revision Note .

**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**