

SAFETY DATA SHEET

Revision date 29-Jun-2021

Revision Number 4

1. Identification	
Product identifier	
Product Name	WS-138
Other means of identification	
Product Code(s)	3229Z
UN number or ID number	UN3264
Synonyms	Inorganic metal salt coagulant/flocculant in aqueous solution
Recommended use of the chemical Recommended use Restrictions on use	and restrictions on use No information available No information available None known
Details of the supplier of the safety	data sheet
Manufacturer Address Anderson Chemical Company, 325 Sc	outh 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

Hazard	statem	ents	<u> </u>				
Causes	severe	skin	burns	and	eye	dam	age

May be corrosive to met	als	
Appearance Clear	Physical state Liquid	Odor No appreciable odo

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling 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 in original container

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor 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: Call a POISON CENTER or doctor if you feel unwell Rinse mouth Do NOT induce vomiting Absorb spillage to prevent material damage

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Unknown acute toxicity 3% of the mixture consists of ingredient(s) of unknown toxicity

Other information

May be harmful if swallowed.

3. Composition/information on ingredients

Substance

Not applicable.

Synonyms

Inorganic metal salt coagulant/flocculant in aqueous solution.

Chemical name	CAS No	Weight-%	Trade secret
Trade secret	Trade secret	45 - 55%	*
Trade secret	Trade secret	0.1 - 5%	*

*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

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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.
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 attention if irritation should develop.
Skin contact	Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and footwear. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
Ingestion	Do NOT induce vomiting. If vomiting should occur spontaneously, keep airway clear. Never give anything by mouth to an unconscious person. Get medical attention.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).
Most important symptoms and effect	cts, both acute and delayed
Symptoms	Skin, eye and respiratory irritation. May cause redness and tearing of the eyes. Itching. Dermatitis. Burning sensation. Rashes. Redness. Coughing and/ or wheezing. Difficulty breathing. Stomach pains.
Indication of any immediate medica	l 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	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.
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.
Hazardous combustion products	Thermal decomposition (as may be experienced in a fire) may release toxic and/or hazardous gases such as HCI and Cl ₂ .
Explosion data Sensitivity to mechanical impac	ct 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 suitable protective clothing and gloves.

Other information	Refer to protective measures listed in Sections 7 and 8. Do not allow liquid to enter streams or waterways.	
For emergency responders	Use personal protection recommended in Section 8.	
Methods and material for containme	ent and cleaning up	
Methods for containment	Prevent further leakage or spillage if safe to do so. Soak up small spills with inert absorbent material and place in a labeled waste container for disposal. Build dikes as necessary to contain flow of large spills. Do not allow liquid to enter streams or waterways.	
Methods for cleaning up	Stop leaks. Clean up spill immediately. Build dikes as necessary to contain flow of large spills. Do not allow liquid to enter stream or waterways. 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. Wear adequate personal protective clothing and equipment. Caution: The use of soda ash may generate carbon dioxide gas. Provide adequate ventilation to spill area. Approved breathing apparatus may be necessary. Clean up large spills with vacuum truck.	

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 skin, eyes or clothing. Wear chemical splash goggles, gloves, and protective clothing when handling. Wash thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Use with adequate ventilation and employ respiratory protection where a dust atmosphere may be generated. Do not take internally. FOR INDUSTRIAL USE ONLY. Conditions for safe storage, including any incompatibilities **Storage Conditions** Store in corrosive resistant stainless steel container with a resistant inner liner. Product may slowly corrode iron, brass, copper, aluminum, mild steel, and stainless steel. Store in a cool, dry place away from heat. Keep container tightly closed when not in use and during transport. Store in corrosion resistant container with a resistant inner liner. **Packaging materials**

8. Exposure controls/personal protection

Control parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Trade secret	-	(vacated) TWA: 2 mg/m ³ Al Aluminum	TWA: 2 mg/m ³ Al
Trade secret	TWA: 1 mg/m ³ respirable particulate matter	-	-

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

Local 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. Ensure that eyewash stations and safety showers are close to the workstation location.
Individual protection measures, suc	ch 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.
Respiratory protection	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.
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.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Liquid	
Appearance	Clear	
Color	Colorless to yellow	
Odor	No appreciable odor	
Odor threshold	No information available	
Odor tilleshold		
Property_	Values	Remarks • Method
pH	1.5 - 2.5	As is
Melting point / freezing point	< -32.2 °C (-26 °F)	/ 13 13
Boiling point / boiling range	104 °C (220 °F)	
Flash point	Not applicable No data available	No information available
	No information available No data	No information available
Evaporation rate	available	NO INICITIALION AVAILABLE
		No information available
Flammability (solid, gas)	Not applicable No data available	
Flammability Limit in Air	NIC JULE - MALL	None known
Upper flammability or explosive	No data available	
limits	NIC JULE - MALL	
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	No information available
Relative vapor density	No data available	No information available
Relative density	1.320 - 1.360	
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	20 - 35 cps	Brookfield @ 25 °C
Other information		
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	11.00 - 11.34 lbs./gal.
Bulk density	No information available

10. Stability and reactivity

Reactivity	Reacts with strong alkalis.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Hazardous polymerization	No.
Conditions to avoid	None known.
Incompatible materials	Alkalis.
Hazardous decomposition products	Thermal decomposition (as may be experienced in a fire) may release toxic and/or hazardous gases such as HCl and Cl ₂ .

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	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 may cause severe irritation and burns.		
Ingestion	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	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			
The following values are calculated based on chapter 3.1 of the GHS document.ATEmix (oral)1,357.10 mg/kg			

Unknown acute toxicity 3% of the mixture consists of ingredient(s) of unknown toxicity

Component Information

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

<u> j</u>	<u></u>
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.
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.
Target organ effects	Eyes, Gastrointestinal tract (GI), Respiratory system, Skin.
Aspiration hazard	No information available.
Other adverse effects	No information available.
Interactive effects	No information available.

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

12. Ecological information

Ecotoxicity

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

C	Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
	Trade secret	-	LC50: =186mg/L (96h, Danio rerio)	-	-
Persis	stence and degrada	ability Not determin	ned. No information availab	le.	
Bioac	cumulation	No informati	on available.		
Mobil	ity	Not determin	ned. No information availab	le.	
Other	adverse effects	No informati	on available.		

13. Disposal considerations

Waste treatment methods

Waste from residues/unused products	Do NOT mix with other chemical wastes. Avoid landfilling liquids. Do not put solutions containing this product into sewer systems. Dispose of product in an approved chemical waste landfill or incinerator in accordance with applicable Federal, state and local regulations.		
Contaminated packaging	Do not reuse empty containers. Since empty containers retain product residue, follow label warnings even after container is emptied.		

US EPA Waste Number

D002 (Corrosivity).

14. Transport information

DOT UN number or ID number Proper shipping name Transport hazard class(es) Packing group Emergency Response Guide Number	Regulated UN3264 Corrosive Liquid, Acidic, Inorganic, N.O.S. (Polyaluminum Chloride Solution) 8 III 154
<u>TDG</u>	Regulated
UN number or ID number	UN3264
UN proper shipping name	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Polyaluminum Chloride Solution)
Transport hazard class(es)	8
Packing group	III
<u>MEX</u> Notes Technical Name	Contact manufacturer.
IATA_	Regulated
UN number or ID number	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	Regulated
UN number or ID number	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	-	Present	Active
Trade secret	-	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

This product does not contain any substances regulated under applicable state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information					
NFPA HMIS	Health hazards 2 Health hazards 2	Flammability 0 Flammability 0	Instability 0 Physical hazards 0	Special hazards COR 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 Terr	n 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** 29-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