

SAFETY DATA SHEET

Revision date 01-Jun-2021 Revision Number 4

1. Identification

Product identifier

Product Name WS-55

Other means of identification

Product Code(s) 509

Synonyms None

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

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

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Hazard statements

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

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The product contains no substances which at their given concentration, are considered to be hazardous to health.

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Appearance Clear Physical state Liquid Odor Amine

Other information

Not applicable.

3. Composition/information on ingredients

Substance

Synonyms None.

	Chemical name	CAS No	Weight-%	Trade secret
Γ	Polyquaternaryamine (Epichlorohydrin-DMA	42751-79-1	~ 50%	*
1	Copolymer)			

^{*}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

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 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.

Most important symptoms and effects, both acute and delayed

Symptoms May result in mild irritation of a short-term nature for the skin and eyes.

Indication of any immediate medical attention and special treatment needed

Large Fire

5. Fire-fighting measures

Suitable Extinguishing Media This material is not expected to burn unless heated to dryness. Use extinguishing agent

suitable for type of surrounding fire. Water. Foam. Carbon dioxide (CO₂). Dry chemical.

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

No information available. Unsuitable extinguishing media

Specific hazards arising from the

chemical

Thermal decomposition (as may be experienced in a fire) may produce hydrogen chloride gas and/or may liberate oxides of nitrogen and carbon. Spills produce slippery surfaces and could present a physical hazard for firemen. In a fire, this product may build up pressure

and rupture a sealed container; cool exposed containers with water spray.

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 suitable protective clothing and gloves.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills. Avoid

runoff to waterways and streams.

Clean up spill immediately using inert absorbent materials such as clays, sand, earth, or Methods for cleaning up

other commercially available dry sweeping compound. Spills of solution are extremely slippery so all residue must be removed promptly. If slippery conditions persist, apply additional dry sweeping compound. Following containment, large spills should be pumped

into salvage tanks.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Keep container closed when not in use. Avoid contact with eyes, skin and clothing. Wear

> chemical splash goggles, gloves, and protective clothing when handling. Wash thoroughly with soap and water after handling. Take off contaminated clothing and wash before reuse. Use only in well-ventilated areas. Use with adequate ventilation and employ respiratory protection where mist or spray may be generated. Ensure that eyewash stations and safety

showers are close to the workstation location.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed when not in use. Store in a cool, well ventilated area. Store at **Storage Conditions**

5 - 30° C (41 - 86° F) in original closed containers. Avoid storage temperatures below freezing, since product may stratify. Changes in temperature create air pressure changes inside drums. Use proper precaution in unscrewing plug and/or opening container.

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8. Exposure controls/personal protection

Control parameters

Exposure Limits This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

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 Rubber gloves.

Skin and body protection While there is a possibility of skin contact, rubber gloves and boots impervious to liquid

material should be worn.

Respiratory protection Under most conditions, use adequate general ventilation and protective equipment since

volatility and toxicity are very low. If significant vapors, mists or aerosols are present, use NIOSH approved respirator (ANSI Z882.1980) or equivalent, that is equipped with a

dust/mist cartridge.

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. Ensure that

eyewash stations and safety showers are close to the workstation location. Do not eat,

at 760 mm Hg

None known

No information available

No information available

drink or smoke when using this product.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid
Appearance Clear

Color colorless to amber

Odor Amine

Odor threshold No information available

PropertyValuesRemarks • MethodpH5.0 - 6.5No information availableMelting point / freezing point< 0 °C (32 °F)</td>No information available

Melting point / freezing point < 0 °C (32 °F)

Boiling point / boiling range > 100 °C (212 °F)

Flash point > 100 °C (212 °F)

Evaporation rate Equal to water No data available Flammability (solid, gas) Not applicable No data available

Upper flammability or explosive No data available

limits

Flammability Limit in Air

Vapor pressure Relative vapor density

Relative density

Water solubility

Lower flammability or explosive

limits

58 mm Hg @ 38 °C

> 60 mm Hg

1.12 - 1.16

Completely 100%

No information available
No information available
No information available

Solubility(ies)No information availableNone knownPartition coefficientNo data availableNone knownAutoignition temperatureNot applicableNo data availableNone knownDecomposition temperatureNo information availableNone known

No data available

Kinematic viscosityNo data availableNo information availableDynamic viscosity550 - 1,000 cpsBrookfield @ 25 °C

Other information

Explosive properties
Oxidizing properties
No information available
VOC Content (%)
No information available
Liquid Density
9.34 - 9.67 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 Hazardous polymerization does not occur.

Conditions to avoid None known.

Incompatible materials Strong oxidizers. Contact with copper, copper alloys, aluminum, mild steel or iron may

cause corrosion/degradation.

Hazardous decomposition products Thermal decomposition (as may be experienced in a fire) may produce hydrogen chloride

gas and/or oxides of nitrogen and carbon.

11. Toxicological information

Information on likely routes of exposure

Inhalation Not considered hazardous under normal conditions of use.

Eye contact None expected, but prolonged or repeated eye contact may result in mild irritation and

redness of a short-term nature.

Skin contactNone expected, but prolonged or repeated skin contact may result in irritation of a

short-term nature.

Ingestion Effects of ingesting small amounts are negligible; ingesting large amounts may injure

person slightly.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms None known.

Acute toxicity

Numerical measures of toxicity

No information available

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

Skin corrosion/irritation Testing conducted on rabbits using the Draize technique revealed the material to be mildly

irritating to the skin.

Testing conducted using the Draize technique revealed that the material produces no Serious eye damage/eye irritation

corneal or iridial effects and only minor conjuctival effects.

Respiratory or skin sensitization No information available.

Negative in the Ames test. Negative in the mouse micronucleus test. Germ cell mutagenicity

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.

No information available. Reproductive toxicity

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.

No information available. Interactive effects

12. Ecological information

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

Method	Species	Endpoint type	Effective dose	Exposure time	Results
EPA-821-R-02-012	Daphnia magna /	LC50	4.05 mg/L	48 hr, static	
	Water flea]		

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 Recycle, if possible. If not, dispose of the waste material in accordance with all applicable

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products federal, state and local laws and regulations regarding health and pollution.

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

emptied.

14. Transport information

DOT Chemical, NOI, Not Regulated by DOT

TDG Chemical, NOI, Not Regulated by DOT

MEX Chemical, NOI, Not Regulated by DOT

Technical Name

Chemical, NOI, Not Regulated by DOT <u>IATA</u>

IMDG Chemical, NOI, Not Regulated by DOT

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
Polyquaternaryamine (Epichlorohydrin-DMA Copolymer)	42751-79-1	Present	Active
Water	7732-18-5	Present	Active
Sodium Chloride	7647-14-5	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.

All ingredients are on the inventory or exempt from listing. **ENCS 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

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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

WARNING: This product can expose you to chemicals including epichlorohydrin, which is known to the State of California to cause cancer or reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Chemical name	California Proposition 65
Epichlorohydrin - 106-89-8	Carcinogen
	Male Reproductive

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
HMISHealth hazards1Flammability0Instability0Special hazardsHMISHealth hazards1Flammability0Physical hazards0Personal protectionB

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)

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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 01-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