



# SAFETY DATA SHEET

Revision date 2017-02-17

Revision number 2.01

## 1. IDENTIFICATION

### Product identifier

Product name WS-57

### Other means of identification

Product code 518  
Synonyms None

### 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 Avenue  
(320) 693-2477  
Hours: Monday-Friday 8:00-5:00 CST (Central Standard Time)

Website [www.accomn.com](http://www.accomn.com)

### Emergency telephone number

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

## 2. HAZARDS IDENTIFICATION

### Classification

#### OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

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

### GHS Label elements, including precautionary statements

#### EMERGENCY OVERVIEW

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

Physical state liquid	Color yellow to amber	Appearance clear	Odor amine
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**Other information**

- Not applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	weight-%	TRADE SECRET
Polyquaternaryamine (Epichlorohydrin-DMA Copolymer)	42751-79-1	~ 50%	*

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret

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

### 4. FIRST AID MEASURES

**First Aid Measures****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 shoes. 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.

**Inhalation**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.

**Most important symptoms and effects, both acute and delayed****Acute effects**

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

**Chronic effects**

Prolonged or repeated skin exposure may cause dermatitis.

**Indication of any immediate medical attention and special treatment needed****Note to physicians**

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing media****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 (CO<sub>2</sub>), Dry chemical.

**Extinguishing media which must not be used for safety reasons**

No information available.

**Special hazards arising from the substance or mixture****Special Hazard**

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.

**Advice for firefighters****Firefighting measures**

Cool exposed containers with water spray after extinguishing fire.

**Special protective equipment for firefighters**

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

**Explosion data****Sensitivity to Mechanical Impact**

None.

**Sensitivity to Static Discharge**

None.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures****Personal precautions**

Wear suitable protective clothing and gloves.

**Environmental precautions****Environmental precautions**

Avoid runoff to waterways and sewers.

**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.

**Methods for cleaning up**

Clean up spill immediately using inert absorbent materials such as clays, sand, earth, or 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 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**

##### **Technical measures and storage conditions**

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

##### **Incompatible products**

Strong oxidizers. Contact with copper, copper alloys, aluminum, mild steel or iron may cause corrosion/degradation.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Control parameters**

##### **Exposure Guidelines**

This product does not contain any hazardous materials with occupational exposure 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.

#### **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.

##### **Other personal protection data**

Avoid contamination of food, beverage or smoking materials. Eyewash fountains and safety showers must be easily accessible.

##### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

#### **Information on basic physical and chemical properties**

<b>Physical state</b>	liquid
<b>Color</b>	yellow to amber
<b>Appearance</b>	clear
<b>Odor</b>	amine
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks / Method</u>
<b>pH</b>	4.0 - 6.0	No information available
<b>Melting / freezing point</b>	-7 - 0 °C / 19.4 - 32 °F	No information available
<b>Boiling point / boiling range</b>	> 100 °C / > 212 °F @ 760 mm Hg	No information available
<b>Flash point</b>	> 100 °C / > 212 °F	No information available
<b>Evaporation rate</b>	Equal to water	No information available
<b>Flammability (solid, gas)</b>	Not applicable	No information available
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit</b>	Not applicable	No information available
<b>Lower flammability limit</b>	Not applicable	No information available
<b>Vapor pressure</b>	58 mm Hg @ 38 °C	No information available
<b>Vapor density</b>	> 60 mm Hg	No information available
<b>Specific gravity</b>	1.12 - 1.16	No information available
<b>Solubility (water)</b>	completely; 100%	No information available
<b>Solubility in other solvents</b>	No information available	No information available
<b>Partition coefficient: n-octanol/water</b>	No information available	No information available
<b>Autoignition temperature</b>	Not applicable	No information available
<b>Decomposition temperature</b>	No information available	No information available
<b>Kinematic viscosity</b>	No information available	No information available
<b>Dynamic viscosity</b>	4,000 - 9,000 cps	No information available

Other information

<b>Density</b>	9.34 - 9.67 lb/gal
<b>Bulk Density</b>	No information available
<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available
<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>Volatile Organic Compound (VOC) content, wt.%</b>	No information available
<b>Percent Volatile, wt.%</b>	50 %

## 10. STABILITY AND REACTIVITY

**Reactivity****Reactivity**

No data available.

**Chemical stability****Chemical stability**

Stable under normal conditions of handling, use and transportation.

**Possibility of hazardous reactions****Possibility of hazardous reactions**

None under normal processing.

**Hazardous polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid****Conditions to avoid**

None known.

**Incompatible materials****Materials to avoid**

Strong oxidizers. Contact with copper, copper alloys, aluminum, mild steel or iron may cause corrosion/degradation.

**Hazardous decomposition products****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****Eye contact**

None expected, but prolonged or repeated eye contact may result in mild irritation and redness of a short-term nature.

**Skin contact**

None 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.

**Inhalation**

Not considered hazardous under normal conditions of use.

**Acute toxicity - Product Information**

**Oral LD50** > 2000 mg/kg (rat; estimated)

**Dermal LD50** > 2000 mg/kg (rat; estimated)

**Inhalation LC50** No information available

### Information on toxicological effects

**Symptoms**

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.

**Serious eye damage/eye irritation**

Testing conducted using the Draize technique revealed that the material produces no corneal or iridial effects and only minor conjunctival effects.

**Sensitization**

No information available

**Germ cell mutagenicity**

Negative in the Ames test

Negative in the mouse micronucleus test

**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

**Specific target organ toxicity - Single exposure**

No information available.

**Specific target organ toxicity - Repeated exposure**

No information available

**Aspiration hazard**

No information available.

**Other information**

Conclusions are drawn from sources other than direct testing.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

- The effects of this product on aquatic organisms are rapidly and significantly reduced with the presence of dissolved organic carbon in the aquatic environment.

**Acute aquatic toxicity - Product Information**

<b>Fish</b>	LC50 (96 hour): > 10 mg/L - Zebra Fish ( <i>Danio rerio</i> )
<b>Crustacea</b>	EC50 (48 hour): > 10 mg/L - Water flea ( <i>Daphnia magna</i> )
<b>Algae/aquatic plants</b>	No information available

**Persistence and degradability****Persistence and degradability**

No information available

**Bioaccumulative potential****Bioaccumulative potential**

This product does not bio-accumulate.

**Mobility****Mobility**

No information available

**Results of PBT and vPvB assessment****PBT and vPvB assessment**

No information available

**Other adverse effects****Other information**

No other ecological studies have been carried out on this product.

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Disposal of wastes**

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

**ICAO/IATA** Not regulated

**IMDG** Not regulated

**15. REGULATORY INFORMATION****International Inventories****TSCA (United States)**

All ingredients are on the inventory or exempt from listing

**Australia (AICS)**

All ingredients are on the inventory or exempt from listing

**Canada (DSL)**



All ingredients are on the inventory or exempt from listing

**Canada (NDSL)**

None of the ingredients are on the inventory.

**China (IECSC)**

All ingredients are on the inventory or exempt from listing

**EINECS (European Inventory of Existing Chemical Substances)**

Some ingredients are not on the inventory.

**ELINCS (European List of Notified Chemical Substances)**

None of the ingredients are on the inventory.

**ENCS (Japan)**

All ingredients are on the inventory or exempt from listing

**South Korea (KECL)**

All ingredients are on the inventory or exempt from listing

**Philippines (PICCS)**

All ingredients are on the inventory or exempt from listing

**Legend**

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- AICS** - Australian Inventory of Chemical Substances
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- IECSC** - China Inventory of Existing Chemical Substances
- EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**U.S. Federal Regulations**

**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.

**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).

**SARA 311/312 Hazard Categories**

Acute health hazard	No
Chronic health hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive hazard	No

**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.

**U.S. State Regulations**

**California Proposition 65**

This product may contain traces of a substance(s) known to the State of California to cause cancer and/or reproductive toxicity.

**U.S. State Right-to-Know Regulations**

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

**16. OTHER INFORMATION**

<b>NFPA Rating</b>	Health - 1	Flammability - 0	Instability - 0	Special Hazard -
<b>HMIS Rating</b>	Health - 1	Flammability - 0	Physical hazards - 0	Personal protection - B
<b>Product code</b>	518			
<b>Revision date</b>	2017-02-17			
<b>Revision number</b>	2.01			

**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