

WS-C85

Ref. /US/EN

Revision Date: 02/26/2015

Previous date: 00/00/0000

Print Date:10/10/2016

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information****Product name****WS-C85****Recommended use of the chemical and restrictions on use****Use of the Substance/Mixture**

Sludge dewatering, flocculation of solids.

Flocculating agent.

Recommended restrictions on use

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Supplier's details**Anderson Chemical Company****325 South Davis Ave.****Litchfield, MN 55355****+1-320-693-2477****Hours: Monday-Friday 8:00-5:00 CST (Central Standard Time)****Emergency telephone number**

CHEMTREC: 1-800-424-9300

2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

The material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard's (29CFR 1910.1200) implementation of the Globally Harmonized System (GHS), i.e., material is not a dangerous substance or mixture requiring GHS classification according to the US GHS regulations.;

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GHS-Labeling

Product is not hazardous under US GHS.

Other hazards which do not result in classification

Advice; The health hazards of this product should be low under normal industrial and commercial uses.

Physical/Chemical Hazard; Spills are very slippery.

Skin; Repeated or prolonged exposure May cause slight irritation.

Eyes; May cause slight irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances /Mixtures

Chemical nature

Polyquaternary amine in water

No hazardous ingredients

Further information

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

4. FIRST AID MEASURES

Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance.

Inhalation

Move to fresh air. No hazards which require special first aid measures.

Skin contact

Wash off immediately with soap and plenty of water.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Ingestion

Contact physician if a larger quantity of the product has been consumed.

Most important symptoms and effects, both acute and delayed

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Symptoms : No information available.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Water mist

Carbon dioxide (CO₂)

Dry powder

Special protective actions for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

Use NIOSH/MSHA approved respiratory protection.

Further information

In the event of fire, cool tanks with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For personal protection see section 8. Use rubber boots.

Environmental precautions

Should not be released into the environment.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

Remove residues by scrubbing. Prevent product from entering drains.

Additional advice

If the product contaminates rivers and lakes or drains inform respective authorities. Contaminated surfaces will be extremely slippery.

7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

For personal protection see section 8.

Conditions for safe storage, including any incompatibilities

Store at room temperature in the original container.

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Materials for packaging

Unsuitable material: To avoid product degradation and equipment corrosion, do not use iron, copper or aluminium containers or equipment.

Materials to avoid:

Strong oxidizing agents, Iron, Copper, Aluminium, Acids

Storage stability:

Storage temperature 41 - 77 °F

Other data Stable under recommended storage conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value	Form of exposure	Control parameters	Update	Basis
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Contains no substances with occupational exposure limit values.

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Avoid contact with skin and eyes. Ensure that eyewash stations and safety showers are close to the workstation location.

Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Respiratory protection

None under normal use.

Hand protection

Glove material: Impervious gloves, Permeability tests are not available for this product. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Skin and body protection

Long sleeved clothing No special requirements.

Eye protection

Tightly fitting safety goggles

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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid,
Colour	clear, colourless, or, amber
Odour	amine-like
Melting point/range	Melting point/range -18 °C
Initial boiling point and boiling range	Boiling point/boiling range ca. 212 °F
Flash point	> 199.4 °F (closed cup)
Explosive properties:	
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	No data available
Density	1.1 - 1.2 g/cm ³
Solubility(ies):	
Water solubility	completely soluble
Partition coefficient: n-octanol/water	Not applicable
Decomposition temperature	> 212 °F
Viscosity:	
Viscosity, dynamic	ca. 5,000 mPa.s
Surface tension	Not applicable

10. STABILITY AND REACTIVITY

Reactivity

Chemical stability

Possibility of hazardous reactions

Hazardous reactions: Hazardous polymerisation does not occur.

Conditions to avoid

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Conditions to avoid: None known.

Incompatible materials

Materials to avoid: Strong oxidizing agents
Iron
Copper
Aluminium
Acids

Hazardous decomposition products

Hazardous decomposition products: Ammonia
Carbon dioxide (CO₂)
Carbon monoxide
Nitrogen oxides (NO_x)
hydrogen chloride (HCl)
dimethylamine

Thermal decomposition: > 212 °F

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute oral toxicity Conclusion: The acute toxicological results displayed may not be the results of actual testing of this material but based on a similar tested material.

Remarks: estimated
/Rat/6,160 mg/kg/LD50

Acute inhalation toxicity LC50/Rat/4 h/>/20 mg/lRemarks: estimated

Acute dermal toxicity LD50/Rabbit/>
/10,000 mg/kg

Remarks: estimated

Skin corrosion/irritation

Conclusion: No skin irritation

Serious eye damage/eye irritation

Conclusion: No eye irritation

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Respiratory or skin sensitisation

Skin sensitisation

Conclusion: Not sensitizing.

Germ cell mutagenicity

Carcinogenicity

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity

Remarks: Ecotoxicological information provided is based on a structurally or compositionally similar product., Acute toxicity tests conducted using environmentally representative water.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

LC50/96 h/Branchydanio rerio (zebra fish)/OECD Test Guideline 203: > 10 - 100 mg/l

Remarks: fresh water

EC50/48 h/Daphnia magna (Water flea)/Immobilization/OECD Test Guideline 202: > 10 - 100 mg/l

IC50/72 h/Pseudokirchneriella subcapitata (green algae)/Growth inhibition/OECD Test Guideline 201: > 10 - 100 mg/l

Toxicity to other organisms

Persistence and degradability

Biological degradability:

Remarks: Ecotoxicological information provided is based on a structurally or compositionally similar product.

Modified Sturm Test/OECD Test Guideline 301B/28 d: < 70 %

Not readily biodegradable.

Bioaccumulative potential

The product is not expected to bioaccumulate. Because of the high molecular weight of the polymer diffusion through biological membranes is very small.

Partition coefficient: n-octanol/water: Not applicable

Mobility in soil

Water solubility: completely soluble

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Surface tension: Not applicable

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Product

Where possible recycling is preferred to disposal or incineration. In accordance with local and national regulations. EPA Hazardous Waste - NO

Contaminated packaging

Must be disposed of in accordance with local and national regulations.

14. TRANSPORT INFORMATION

Land transport

Not classified as dangerous in the meaning of transport regulations.

Sea transport

Not classified as dangerous in the meaning of transport regulations.

Air transport

Not classified as dangerous in the meaning of transport regulations.

Special precautions for user

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Title III Section 311 Categories

Immediate (Acute) Health Effects: No;
Delayed (Chronic) Health Effects: No;
Fire Hazard: No;
Sudden Release Of Pressure Hazard: No;
Reactivity Hazard: No;

SARA 302 Extremely Hazardous Substances

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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None Present ()

SARA 313 - Specific Toxic Chemical Listings

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

None Present ()

California Proposition 65

Epichlorohydrin (106-89-8) < 0.0005 %

1,3-dichloropropan-2-ol (96-23-1) < 0.049 %

3-Chloropropane-1,2-diol (96-24-2) < 0.0099 %

Glycidol (556-52-5) < 0.0009 %

Remarks: This product contains a chemical or chemicals known to the state of California to cause cancer, birth defects or other reproduction harm.

Notification status

- :
- : All components of this product are included in the United States TSCA Chemical Inventory or are not required to be listed on the United States TSCA Chemical Inventory.
- : All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS.
- : All components of this product are included in the Canada Domestic Substance List (DSL) or are not required to be listed on the Canada Domestic Substance List (DSL).
- : All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese (ENCS) inventory.
- : All components of this product are included in the Australian Inventory of Chemical Substances (AICS) or are not required to be listed on the Australian Inventory of Chemical Substances (AICS).
- : All components of this product are included in the Korean (ECL) inventory or are not required to be listed on the Korean (ECL) inventory.
- : All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine (PICCS) inventory.
- : All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese

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inventory.

- : All components of this product are included on the Taiwan Toxic Chemical Substances Control Act Inventory.
- : All components of this product are included in the New Zealand inventory (NZIoC) or are not required to be listed on the New Zealand inventory(NZIoC).

16. OTHER INFORMATION

HMIS Rating

Health: 1

Flammability: 0

Reactivity: 0

NFPA Rating

Health: 1

Fire: 1

Reactivity: 0

Training advice

Read the safety data sheet before using the product.

Further information

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.

Sources of key data used to compile the Safety Data Sheet

Regulations, databases, literature, own tests.

Additions, Deletions, Revisions

Relevant changes have been marked with vertical lines.