

Ref. /US/EN

Previous date: 00/00/0000

Revision Date: 03/12/2015

Print Date:03/01/2016

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information****Product name****WS-C91P****Recommended use of the chemical and restrictions on use****Use of the Substance/Mixture**

Sludge dewatering, flocculation of solids.

Recommended restrictions on use

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Supplier's detailsAnderson Chemical Company
325 South Davis Ave
Litchfield, MN 55355
320-693-2477**Emergency 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; Contaminated surfaces will be extremely slippery. The health hazards of this product should be low under normal industrial and commercial uses.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances /Mixtures

Chemical nature

Polyquaternary ammonium resin in water

4. FIRST AID MEASURES

Description of first aid measures

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

No hazards which require special first aid measures.

Most important symptoms and effects, both acute and delayed

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Water mist

Carbon dioxide (CO₂)

Dry chemical

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Special hazards arising from the substance or mixture

Contaminated surfaces will be extremely slippery.

Special protective actions for fire-fighters

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

Further information

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. For personal protection see section 8.

Environmental precautions

Prevent undiluted product from entering the environment.

Methods and materials for containment and cleaning up

Spills are very slippery. 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

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.

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, Acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

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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. Avoid contact with skin and eyes.
Wash hands and face before breaks and immediately after handling the product.
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

Protective clothing.

Eye protection

Safety goggles

Environmental exposure controls

No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid,
Colour	colourless, 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

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Flash point > 199.4 °F (closed cup)

Explosive properties:

Upper explosion limit

No data available

Density

1,030 - 1,050 kg/m³

Solubility(ies):

Water solubility

completely soluble

Partition coefficient: n-octanol/water

No data available

Surface tension

No data available

10. STABILITY AND REACTIVITY

Reactivity

Chemical stability

Possibility of hazardous reactions

Hazardous reactions: No data available

Conditions to avoid

Conditions to avoid: No information available.

Incompatible materials

Materials to avoid: Strong oxidizing agents
Acids

Hazardous decomposition products

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

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

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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. />/Rat/10,000 mg/kg/LD50
Acute oral toxicity	Poly(diallyldimethylammoniumchloride): /Rat/3,000 mg/kg/LD50 Oral Poly(diallyldimethylammoniumchloride): /Mouse/1,720 mg/kg/LD50 Oral
Acute inhalation toxicity	LC50/Rat/4 h/>/20 mg/l
Acute dermal toxicity	LD50/Rabbit/> /10,000 mg/kg
Skin corrosion/irritation	Result: No skin irritation
Serious eye damage/eye irritation	Result: No eye irritation
Respiratory or skin sensitisation	
Skin sensitisation	Conclusion: Not sensitizing.
Germ cell mutagenicity	
Carcinogenicity	
Reproductive toxicity	

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity

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

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

EC50/240 h/Corophium volutator (amphipoda)/PARCOM: 8,871 mg/l

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Remarks: seawater

EC50/48 h/Acartia tonsa (copepod)/PARCOM: 7,283 mg/l

Remarks: seawater

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

IC50/72 h/Skeletonema costatum (diatom)/ISO 10253: 0.67 mg/l

Remarks: seawater

Toxicity to other organisms

No data available

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.

/OECD Test Guideline 306/28 d: 25 %

Remarks: seawater

Bioaccumulative potential

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

Partition coefficient: n-octanol/water: No data available

Mobility in soil

Water solubility: completely soluble

Surface tension: No data available

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

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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

No SARA Hazards

SARA 302 Extremely Hazardous Substances

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

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

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

None Present ()

Notification status

: All components of this product are included in the European

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Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS.

- : 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 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 Chinese inventory or are not required to be listed on the Chinese inventory.
- : 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 Korean (ECL) inventory or are not required to be listed on the Korean (ECL) inventory.
- : This product's New Zealand Inventory of Chemical Substances (NZIoC) status has NOT been determined.
- : 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 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 on the Taiwan Toxic Chemical Substances Control Act Inventory.

16. OTHER INFORMATION

HMIS Rating

Health: 0

Flammability: 0

Reactivity: 0

NFPA Rating

Health: 0

Fire: 1

Reactivity: 0

Training advice

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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.