

Ref. /US/EN

**WE-C60**

Revision Date: 06/03/2015

Print Date:09/22/2015

Previous date: 04/24/2015

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****Product information****Product name****WE-C60****Recommended use of the chemical and restrictions on use****Use of the Substance/Mixture**

Flocculating agent.

**Recommended restrictions on use**

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**Supplier's details**Anderson Chemical Company  
325 South David Avenue  
Litchfield, MN 55355  
320-693-2477**Emergency number**

CHEMTREC: 1-800-424-9300

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

Skin corrosion/irritation; Category 2; Causes skin irritation.;

**GHS-Labeling**

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<b>Hazard pictograms</b>	:	
<b>Signal word</b>	:	Warning
<b>Hazard statements</b>	:	<b>Hazard statements:</b> H315 Causes skin irritation.
<b>Precautionary statements</b>	:	<b>Prevention:</b> P264 Wash hands thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. <b>Response:</b> P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P362 Take off contaminated clothing. <b>Disposal:</b> P501 Dispose of contents/container in accordance with local regulation.

## Other hazards which do not result in classification

**Advice;** Contaminated surfaces will be extremely slippery.

**Eyes;** May cause slight irritation.

**Potential environmental effects;** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substances /Mixtures

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Chemical nature

Cationic polyacrylamide.

## Hazardous components

Chemical Name	CAS-No.	Concentration[%]
Distillates (petroleum), hydrotreated light	64742-47-8	20 - 25 %
Citric acid	77-92-9	2 - 3.0 %
Alcohols, C10-16, ethoxylated	68002-97-1	0 - 3 %
Alcohols, C12-14, ethoxylated	68439-50-9	0 - 3 %
Alcohols, C12-16, ethoxylated	68551-12-2	0 - 3 %

Components listed above that have a zero minimum and a common maximum range are interchangeably used components based on availability. Only one of these components is contained in the product up to the maximum amount noted.

## 4. FIRST AID MEASURES

### Description of first aid measures

#### Inhalation

Remove to fresh air. If there is difficulty in breathing, medical advice is required.

#### Skin contact

Take off contaminated clothing and shoes immediately. Wash off with plenty of water. Consult a physician if necessary.

#### Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. Obtain prompt medical consultation, preferably from an ophthalmologist.

#### Ingestion

Rinse mouth with water. Call a physician immediately. Do NOT induce vomiting.

### Most important symptoms and effects, both acute and delayed

## 5. FIREFIGHTING MEASURES

### Suitable extinguishing media

Water spray

Carbon dioxide (CO<sub>2</sub>)

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Dry chemical

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

Burning may produce toxic and irritant gases.

**Special protective actions for fire-fighters**

Wear self-contained breathing apparatus and protective suit.

**Further information**

Prevent fire extinguishing water from contaminating surface water or the ground water system. 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. Avoid contact with skin, eyes and clothing. Where the exposure level is not known, wear approved, positive pressure, self-contained respirator. Where the exposure level is known, wear approved respirator suitable for the level of exposure.

**Environmental precautions**

Prevent leakages from entering drains and ditches that lead to natural waterways.

**Methods and materials for containment and cleaning up**

Hazard of slipping on spilt product. Soak up with inert absorbent material. Shovel into suitable container for disposal. Flush with water. Use detergent if needed.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**

Store at room temperature in the original container.

Flashpoint determination was performed using a Pensky Martens type closed cup method. The method indicates a flash point greater than 93,3° C (200° F). Although there was no flashpoint detected below 93,3° C (200° F) some flammable vapours were evolved during the test as evidenced by the enlargement of the flame. Therefore caution should be exercised during storage and handling.

**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:

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Strong oxidizing agents

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value	Form of exposure	Control parameters	Update	Basis
Distillates (petroleum), hydrotreated light	64742-47-8	TWA		200 mg/m <sup>3</sup>	2006-11-29	CA BC OEL
		TWA		197 ppm 1,200 mg/m <sup>3</sup>		

### 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, eyes and clothing. Do not breathe vapour.

Ensure adequate ventilation.

### Individual protection measures, such as personal protective equipment

#### Respiratory protection

Where exposures are below the established exposure limit, no respiratory protection is required. Where exposures exceed the established exposure limit, use respiratory protection recommended for the material and level of exposure.

#### Hand protection

Impervious gloves Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

#### Skin and body protection

#### Eye protection

Tightly fitting safety goggles

#### Environmental exposure controls

No data available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

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<b>Physical state</b>	liquid,
<b>Colour</b>	off-white
<b>Odour</b>	hydrocarbon-like
<b>pH</b>	3 - 4
<b>Initial boiling point and boiling range</b>	Aqueous solution Boiling point/boiling range ca. 347 °F Oil phase Boiling point/boiling range ca. 212 °F
<b>Flash point</b>	aqueous phase > 212 °F (closed cup) (Pensky-Martens)
<b>Explosive properties:</b>	
<b>Lower explosion limit</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Density</b>	similar to water
<b>Solubility(ies):</b>	similar to water
<b>Water solubility</b>	Limited by viscosity.
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Surface tension</b>	not determined

## 10. STABILITY AND REACTIVITY

### Reactivity

### Chemical stability

### Possibility of hazardous reactions

Hazardous reactions: Hazardous polymerisation does not occur.

### Conditions to avoid

Conditions to avoid: Stable under recommended storage conditions.

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## Incompatible materials

Materials to avoid: Strong oxidizing agents

## Hazardous decomposition products

Hazardous decomposition products: Carbon oxides (COx)  
Ammonia  
Nitrogen oxides (NOx)  
hydrogen chloride (HCl)

Thermal decomposition: Note: No data available

## 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/5,000 mg/kg/LD50

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

**Acute dermal toxicity** LD50/Rabbit/>  
/2,000 mg/kg

Remarks: estimated

**Skin corrosion/irritation** Remarks: The toxicological data has been taken from products of similar composition.  
Conclusion: Irritating to skin.

**Serious eye damage/eye irritation**

Remarks: The toxicological data has been taken from products of similar composition.

Conclusion: No eye irritation

**Respiratory or skin sensitisation**

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<b>Mucous membranes</b>	Conclusion: No data available
<b>Skin sensitisation</b>	Conclusion: Not sensitizing.
<b>Germ cell mutagenicity</b>	
<b>Genotoxicity in vivo</b>	Conclusion: Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	
<b>Reproductive toxicity</b>	
<b>Toxicity for reproduction</b>	Conclusion: Based on available data, the classification criteria are not met.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

#### Aquatic toxicity

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

LC50/96 h/Branchydanio rerio (zebra fish)/Acute toxicity/OECD Test Guideline 203: > 1 - 10 mg/l

Remarks: fresh water

LC50/96 h/Pimephales promelas (fathead minnow)/Acute aquatic toxicity/US EPA TSCA Test Guidelines: 6.6 - 8.8 mg/l

Remarks: Actual product testing

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

LC50/48 h/Daphnia magna (Water flea)/Acute toxicity/EPA: 3.3 - 5.5 mg/l

Remarks: Actual product testing

IC50/algae/Growth inhibition/OECD Test Guideline 201:

Remarks: Method not applicable.

Due to the cationicity of the polymer, test is not appropriate.

#### Toxicity to other organisms

No data available

#### Persistence and degradability

Biological degradability:

CO2 Evolution Test/OECD Test Guideline 301B:

The polymeric ingredient is not readily biodegradable. Because of the high molecular weight of the



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polymer diffusion through biological membranes is very small.

## **Bioaccumulative potential**

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

## **Mobility in soil**

Water solubility: Limited by viscosity.

Surface tension: not determined

## **Other adverse effects**

No data available

Additional ecological information: Low toxicity for aquatic organisms. The effects on aquatic organisms are due to an external (non-systemic) mode of action and are significantly reduced (by a factor of 7-20) within 30 minutes due to the binding of the product to dissolved organic carbon and inorganic sorbents such as clays and silts.

Additional ecological information: This material is not classified as dangerous for the environment.

## **13. DISPOSAL CONSIDERATIONS**

### **Product**

Recycling, recovery and reuse of materials is recommended if permitted by regulations. If recycling is not practicable, dispose of in compliance with local regulations. Incineration is recommended.

Packages that cannot be cleaned must be disposed of the same way as the unused product.

EPA Hazardous Waste - NO.

### **Contaminated packaging**

Dirty package must be disposed of in the same way as the product itself.

## **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.

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## Air transport

Not classified as dangerous in the meaning of transport regulations.

## Special precautions for user

No data available

## 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: Yes;**  
**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.  
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

Acrylamide (79-06-1) < 0.1 %

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

**Other regulations** : None.

#### Notification status

- : 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 Australian

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- 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.
  - : This product's Taiwan Toxic Chemical Substances Control Act Inventory status has NOT been determined.

## 16. OTHER INFORMATION

### HMIS Rating

Health: 2

Flammability: 1

Reactivity: 0

### NFPA Rating

Health: 2

Fire: 1

Reactivity: 0

### Training advice

Read the safety data sheet before using the product.

### Further information

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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.