1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information

Product name
WD-C60

Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture
Water treatment chemical

Recommended restrictions on use
-

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

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.

GHS-Labelling
Product is not hazardous under US GHS.

Other hazards which do not result in classification

Advises: Spills are very slippery when wet.
Skin: Repeated or prolonged exposure may cause slight irritation.
Eyes: Dust contact with the eyes can lead to mechanical irritation.
Chronic exposure: No known carcinogenic or other chronic effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances /Mixtures

<table>
<thead>
<tr>
<th>Chemical nature</th>
<th>Cationic polyacrylamide.</th>
</tr>
</thead>
</table>

Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration[%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adipic acid</td>
<td>124-04-9</td>
<td>0 - 5 %</td>
</tr>
</tbody>
</table>

Further information

While the product does not meet the US GHS hazardous classification requirement, component(s) shown in the Hazardous components table have a workplace exposure limit (ACGIH, NIOSH or OSHA) which are required to be listed regardless of GHS classification status. See section 8 for workplace limits.

4. FIRST AID MEASURES

Description of first aid measures

General advice
Show this safety data sheet to the doctor in attendance.

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

Skin contact
Wash off immediately with soap and plenty of water.
SAFETY DATA SHEET

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

Ingestion
Material is not expected to be harmful by 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 spray
Dry chemical
Carbon dioxide (CO2)
Water mist

Unsuitable extinguishing media
none

Special hazards arising from the substance or mixture
Dust may be explosive if mixed with air in critical proportions and in the presence of a source of ignition.

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 SDS section 8.

Environmental precautions
Try to prevent the material from entering drains or water courses.

Methods and materials for containment and cleaning up
Product becomes slippery when it is wet. Sweep up and shovel into suitable containers for disposal.
Flush with water. Prevent product from entering drains.
7. HANDLING AND STORAGE

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

Store at room temperature in the original container.

**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

**Storage stability:**

- Storage temperature: 39.2 - 80.6 °F
- Other data: Stable under recommended storage conditions.

**Reason:**

integrity

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Form of exposure</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adipic acid</td>
<td>124-04-9</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>2007-01-01</td>
<td>ACGIH</td>
<td></td>
</tr>
</tbody>
</table>

**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 dust. 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**

When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

**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. Wear suitable protective clothing (long sleeves and legs) if there is a possibility of direct contact with or splashes from the product.

**Eye protection**
Safety goggles

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>solid, crystalline, powder</td>
</tr>
<tr>
<td>Colour</td>
<td>off-white</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>pH</td>
<td>3 - 5 (0.5 %)</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive properties: Lower explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Bulk density</td>
<td>750 kg/m³</td>
</tr>
<tr>
<td>Solubility(ies): Water solubility</td>
<td>Limited by viscosity.</td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Reactivity
Chemical stability
Possibility of hazardous reactions
Hazardous reactions: Hazardous polymerisation does not occur.

Conditions to avoid
Conditions to avoid: Avoid contact with alkaline materials which will degrade the polymer.

Incompatible materials
Materials to avoid: Strong oxidizing agents

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

Thermal decomposition: >302 °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.
### Acute oral toxicity

**Adipic acid**: /OECD Test Guideline 401/
/Rat/ 5,000 mg/kg/LD50

### Acute inhalation toxicity

**Remarks**: estimated
/LC50/Rat/4 h/20 mg/L

### Acute dermal toxicity

**Remarks**: estimated
/LD50/Rabbit
/> 2,000 mg/kg

### Acute dermal toxicity

**Adipic acid**: /LD50/Rabbit
/> 5,000 mg/kg/No information available.

### Skin corrosion/irritation

**Conclusion**: No skin irritation

### Skin corrosion/irritation

**Adipic acid**: Rabbit
**Result**: No skin irritation
/No information available.

### Serious eye damage/eye irritation

**Conclusion**: No eye irritation

### Serious eye damage/eye irritation

**Adipic acid**: Rabbit
**Result**: Irritating to eyes.
/OECD Test Guideline 405

### Respiratory or skin sensitisation

### Skin sensitisation

**Conclusion**: Not sensitizing.

### Germ cell mutagenicity

### Genotoxicity in vivo

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

### Carcinogenicity

### Carcinogenicity

**Conclusion**: Based on available data, the classification criteria are not met.
SAFETY DATA SHEET

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity

Ecotoxicological information provided is based on a structurally or compositionally similar product. This material is not classified as dangerous for the environment. 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.

LC50/96 h/Branchydanie rerio (zebra fish)/Acute toxicity/OECD Test Guideline 203: > 1 - 10 mg/l
EC50/48 h/Daphnia magna (water flea)/Immobilization/OECD Test Guideline 202: > 10 - 100 mg/l
IC50/algae/Growth inhibition/OECD Test Guideline 201:
Due to the cationicity of the polymer, test is not appropriate.

Adipic acid:
LC50/96 h/Fish: > 100 mg/l
EC50/48 h/Daphnia (water flea): 85.6 mg/l
EC50/72 h/algae: 31.3 mg/l

Toxicity to other organisms

Persistence and degradability

Biological degradability:
CO2 Evolution Test/OECD Test Guideline 301B/28 d:

The polymeric ingredient is not readily biodegradable, but degradable by hydrolysis.

Biological degradability:
Adipic acid:
Not readily biodegradable.

Bioaccumulative potential

Bioaccumulation is unlikely. Because of the high molecular weight of the polymer diffusion through
biological membranes is very small.  
Partition coefficient: n-octanol/water: Not applicable

Adipic acid:

Does not bioaccumulate.  
Partition coefficient: n-octanol/water: log Pow: 0.093  
Mobility in soil

Water solubility: Limited by viscosity.  
Surface tension: Not applicable

Other adverse effects

No information available.  
Additional ecological information: Ecotoxicological information provided is based on a structurally or compositionally similar product. This material is not classified as dangerous for the environment. 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.

13. DISPOSAL CONSIDERATIONS

<table>
<thead>
<tr>
<th>Product</th>
<th>Recycling, recovery and reuse of materials is recommended if permitted by regulations. If recycling is not practicable, dispose of in compliance with local regulations. EPA Hazardous Waste - NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contaminated packaging</td>
<td>Must be disposed of in accordance with local and national regulations.</td>
</tr>
</tbody>
</table>

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.

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;

US. Environmental Protection Agency (EPA); Superfund Amendments and Reauthorization Act (SARA) Section 302 Extremely Hazardous Substances as amended by US Federal Register Final rules.
- No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
  - None Present ()

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required
- 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 ()

CERCLA Hazardous substance (Reportable Quantities)
- None Present ()
  - 0 kg

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.

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 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 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 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 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.

: 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 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
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.