

Ref. /US/EN

WD-C60

Revision Date: 03/04/2016

Print Date:03/04/2016

Previous date: 02/22/2015

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-Labeling

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Product is not hazardous under US GHS.

Other hazards which do not result in classification

Advice; 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

Chemical nature

Cationic polyacrylamide.

Hazardous components

Chemical Name	CAS-No.	Concentration[%]
Adipic acid	124-04-9	0 - 5 %

Further information

While product does not meet 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.

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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.

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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

Components	CAS-No.	Value	Form of exposure	Control parameters	Update	Basis
Adipic acid	124-04-9	TWA		5 mg/m ³	2007-01-01	ACGIH

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

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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

Physical state solid, crystalline, powder

Colour off-white

Odour odourless

pH 3 - 5 (0.5 %)
(as aqueous solution)

Melting point/range No data available

Initial boiling point and boiling range Not applicable

Flash point Not applicable

Evaporation rate Not applicable

Explosive properties:

Lower explosion limit No data available

Upper explosion limit No data available

Vapour pressure Not applicable

Relative vapour density Not applicable

Bulk density 750 kg/m³

Solubility(ies):

Water solubility Limited by viscosity.

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Partition coefficient: n-octanol/water	Not applicable
Decomposition temperature	> 302 °F
Oxidizing potential	The substance or mixture is not classified as oxidizing.
Saturation in air (% vol.)	Not applicable
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

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.

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	Remarks: estimated /Rat/> 5,000 mg/kg/LD50
Acute oral toxicity	Adipic acid: /OECD Test Guideline 401/>/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
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	Based on available data, the classification criteria are not met.
Reproductive toxicity	

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Toxicity for reproduction

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

Toxicity for reproduction

Adipic acid:

Conclusion: No known effect.

Aspiration hazard

Aspiration toxicity

No aspiration toxicity classification

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/Branchydanio 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

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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

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. 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

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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;

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

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- 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

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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.