

Ref. /US/EN

WE-C88

Revision Date: 03/16/2015

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**Product information****Product name****WE-C88****Recommended use of the chemical and restrictions on use****Use of the Substance/Mixture**

Flocculating agent.

Recommended restrictions on use**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

SAFETY DATA SHEET

Ref. /US/EN

WE-C88

Revision Date: 03/16/2015

Print Date:09/22/2015

Previous date: 00/00/0000

Hazard pictograms



Signal word

: Warning

Hazard statements

: **Hazard statements:**
H315 Causes skin irritation.

Precautionary statements

: **Prevention:**
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/ protective clothing/
eye protection/ face protection.
Response:
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.
Disposal:
P501 Dispose of contents/container as special
waste in compliance with local and national
regulations.

Other hazards which do not result in classification

Advice; Contaminated surfaces will be extremely slippery.

Eyes; May cause slight irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances /Mixtures

Chemical nature

Cationic Polyacrylamide, emulsion.

Hazardous components

SAFETY DATA SHEET

Ref. /US/EN

WE-C88

Revision Date: 03/16/2015

Print Date:09/22/2015

Previous date: 00/00/0000

Chemical Name	CAS-No.	Concentration[%]
Distillates (petroleum), hydrotreated light	64742-47-8	20 - 24 %
Alcohols, C12-16, ethoxylated	68551-12-2	0 - 4 %
Alcohols, C10-16, ethoxylated	68002-97-1	0 - 4 %
Alcohols, C12-14, ethoxylated	68439-50-9	0 - 4 %

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

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

Remove contaminated clothing and shoes. Wash off immediately with plenty of water. If symptoms persist, call a physician. Wash contaminated clothing before re-use.

Eye contact

Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, seek medical advice.

Ingestion

Rinse mouth with water. Call a physician immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

Water spray, Carbon dioxide (CO₂), Dry chemical

Keep containers and surroundings cool with water spray.

Special hazards arising from the substance or mixture

SAFETY DATA SHEET

Ref. /US/EN

WE-C88

Revision Date: 03/16/2015

Print Date:09/22/2015

Previous date: 00/00/0000

Burning may produce toxic and irritant gases. Contaminated surfaces will be extremely slippery.

Special protective actions for fire-fighters

Wear self-contained breathing apparatus and protective suit.

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. 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.

Additional advice

If the product contaminates rivers and lakes or drains inform respective authorities.

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.

SAFETY DATA SHEET

Ref. /US/EN

WE-C88

Revision Date: 03/16/2015

Print Date:09/22/2015

Previous date: 00/00/0000

Materials to avoid:

Strong oxidizing agents

Storage stability:

Storage temperature 39.2 - 89.6 °F

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 ³	2006-11-29	CA BC OEL
		TWA		197 ppm 1,200 mg/m ³		

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.

Wash hands before breaks and immediately after handling the product. Wash hands before eating, drinking, or smoking. Keep away from food and drink. Keep away from tobacco products.

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

Glove material: Chemical resistant 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. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

SAFETY DATA SHEET

Ref. /US/EN

WE-C88

Revision Date: 03/16/2015

Print Date:09/22/2015

Previous date: 00/00/0000

Skin and body protection

Avoid contact with skin. Protective clothing.

Eye protection

Tightly fitting safety goggles Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid, viscous liquid
Colour	off-white
Odour	hydrocarbon-like
pH	3 - 4 (diluted liquid)
Initial boiling point and boiling range	Boiling point/boiling range 212 °F
Flash point	> 199.4 °F (closed cup) (Pensky-Martens)
Explosive properties:	
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	similar to water
Relative vapour density	similar to water
Density	similar to water
Solubility(ies):	
Water solubility	Limited by viscosity.
Partition coefficient: n-octanol/water	No data available
Decomposition temperature	No data available
Viscosity:	
Viscosity, kinematic	> 20.5 mm ² /s (104 °F)
Oxidising potential	The substance or mixture is not classified as oxidizing.

SAFETY DATA SHEET

Ref. /US/EN

WE-C88

Revision Date: 03/16/2015

Print Date:09/22/2015

Previous date: 00/00/0000

Surface tension

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.

Incompatible materials

Materials to avoid: Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products: Carbon oxides (COx)
Ammonia
Nitrogen oxides (NOx)
hydrogen chloride (HCl)
sulphur dioxide
Carbon monoxide (CO)

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 oral toxicity

Distillates (petroleum), hydrotreated light:
/>Rat/5,000 mg/kg/LD50

SAFETY DATA SHEET

Ref. /US/EN

WE-C88

Revision Date: 03/16/2015

Print Date:09/22/2015

Previous date: 00/00/0000

Acute inhalation toxicity	LC50/Rat/4 h/>/20 mg/lRemarks: estimated
Acute inhalation toxicity	Distillates (petroleum), hydrotreated light: LC50/Rat/4 h/>/5.2 mg/l
Acute dermal toxicity	LD50/Rabbit/> /2,000 mg/kg Remarks: estimated
Acute dermal toxicity	Distillates (petroleum), hydrotreated light: LD50/Rabbit/> /2,000 mg/kg
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	
Skin sensitisation	Conclusion: Not sensitizing.
Skin sensitisation	Distillates (petroleum), hydrotreated light: Conclusion: This substance is not classified as a sensitizer.
Germ cell mutagenicity	
Carcinogenicity	
Carcinogenicity	Distillates (petroleum), hydrotreated light: Not classified by IARC or NTP.
Reproductive toxicity	

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity

SAFETY DATA SHEET

Ref. /US/EN

WE-C88

Revision Date: 03/16/2015

Print Date:09/22/2015

Previous date: 00/00/0000

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

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

Remarks: similar product

Remarks: Method not applicable., 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.

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.

Bioaccumulative potential

Bioaccumulation is unlikely.

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

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.

SAFETY DATA SHEET

Ref. /US/EN

WE-C88

Revision Date: 03/16/2015

Print Date:09/22/2015

Previous date: 00/00/0000

Contaminated packaging EPA Hazardous Waste - NO
Packages that cannot be cleaned must be disposed of the same way as the unused product.

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

None known.

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 ()

SAFETY DATA SHEET

WE-C88

Ref. /US/EN

Revision Date: 03/16/2015

Previous date: 00/00/0000

Print Date:09/22/2015

California Proposition 65

Acrylamide (79-06-1) < 0.01 %

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

16. OTHER INFORMATION

HMIS Rating

Health: 2

Flammability: 1

SAFETY DATA SHEET

Ref. /US/EN

WE-C88

Revision Date: 03/16/2015

Print Date:09/22/2015

Previous date: 00/00/0000

Reactivity: 0

NFPA Rating

Health: 2

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.