

# **Safety Data Sheet**

## **Section 1: Identification**

**Product identifier** 

Product Name • EC 50, 60, 100 Series

Chemical Name

• Cationic Polyacrylate Invert Emulsion Polymer.

Synonyms • Cationic Polyacrylate Invert Emulsion Polymer

**CAS Number** • 35429-19-7

Product Description • Cationic Polyacrylate Invert Emulsion Polymer.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use 

Cationic water treatment flocculant

Details of the supplier of the safety data sheet

**Supplier** • Zee Company, Inc.

4146 South Creek Road Chattanooga, TN 37406

**United States** 

**Telephone (General)** • 423-698-1401

**Emergency telephone number** 

**CHEMTREC .** 800-424-9300

# Section 2: Hazard Identification

### **UN GHS**

**According to Third Revised Edition** 

Classification of the substance or mixture

**UN GHS** • No data available

Label elements

**UN GHS** 

**Precautionary statements** 

**Response** • P337+P313 - If eye irritation persists: Get medical advice/attention.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Storage/Disposal • PFF - Protect from freezing

P501 - Dispose of content and/or container in accordance with local, regional,

national, and/or international regulations.

Other hazards

**UN GHS** 

No data available

# **United States (US)**

According to OSHA 29 CFR 1910.1200 HCS

# Classification of the substance or mixture

OSHA HCS 2012

Eye Irritation 2A - H319

### Label elements

**OSHA HCS 2012** 

### **WARNING**

Hazard statements • Causes serious eye irritation - H319

**Precautionary statements** 

Response . IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing. - P305+P351+P338 IF ON SKIN: Wash with plenty of soap and water. - P302+P352

Storage/Disposal • Protect from freezing - PFF

Dispose of content and/or container in accordance with local, regional, national, and/or

international regulations. - P501

Other hazards

OSHA HCS 2012 • No data available

### Canada

**According to WHMIS** 

# Classification of the substance or mixture

WHMIS No data available

Label elements

**WHMIS** • No data available

Other hazards

**WHMIS** • No data available

# Section 3 - Composition/Information on Ingredients

### **Substances**

### **Mixtures**

Composition					
Chemical Name Identifiers % LD50/LC50 Classifications According to Regulation/Directive Comm				Comments	
Deionized Water		30% TO 35%		WHMIS: UN GHS: OSHA HCS 2012:	NDA

Distillates (petroleum), hydrotreated light	20% TO 25%	WHMIS: UN GHS: Asp. Tox. 1 OSHA HCS 2012:	NDA
Cationic Polyacrylamide	N/A	WHMIS: UN GHS: OSHA HCS 2012:	NDA

# Section 4: First-Aid Measures

# **Description of first aid measures**

Inhalation

No data available

Skin

IF ON SKIN: Wash with plenty of soap and water.

Eye

If eye irritation persists: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Ingestion

Get medical attention immediately. Give nothing to drink.

# Most important symptoms and effects, both acute and delayed

No data available

# Indication of any immediate medical attention and special treatment needed

Notes to Physician

• All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Product may turn to semi -solid upon addition of water or other liquids.

# Section 5: Fire-Fighting Measures

# Extinguishing media

Suitable Extinguishing Media . SMALL FIRES: CO2 (except for Cyanides), dry chemical, dry sand, alcohol -resistant foam

Unsuitable Extinguishing Media

Water will produce extremely slick surfaces.

**Firefighting Procedures** 

LARGE FIRES: Dike fire-control water for later disposal. When material is not involved in fire: do not use water on material itself.

# Special hazards arising from the substance or mixture

**Unusual Fire and Explosion** Hazards

No data available

**Hazardous Combustion Products** 

Under fire conditions oxides of carbon and nitrogen may be produced.

Advice for firefighters

Water run-off from fire fighting will be very slippery and will pollute waterways.

### Section 6 - Accidental Release Measures

# Personal precautions, protective equipment and emergency procedures

**Personal Precautions** 

Wear appropriate protective clothing.

**Emergency Procedures** 

Do not apply water to spills; produces extremely slick surfaces.

# **Environmental precautions**

Avoid run off to waterways and sewers. Runoff from fire control or dilution water may cause pollution.

# Methods and material for containment and cleaning up

Containment/Clean-up Measures

 Absorb or cover with dry earth, sand or other non -combustible material and transfer to containers.

Prevent runoff from entering drains, sewers, and streams.

# Section 7 - Handling and Storage

# Precautions for safe handling

Handling Protect from freezing.

# Conditions for safe storage, including any incompatibilities

Storage

Protect from freezing.

Incompatible Materials or **Ignition Sources** 

Do not add water to product; may turn product to semi -solid material.

# Section 8 - Exposure Controls/Personal Protection

# Control parameters

Exposure Limits/Guidelines					
	Result Germany DFG				
Distillates (petroleum),	Ceilings	40 ppm Peak; 280 mg/m3 Peak			
hydrotreated light (64742-47-8)	MAKs	20 ppm TWA MAK; 140 mg/m3 TWA MAK			

# **Exposure Control Notations**

**Germany DFG** 

•Distillates (petroleum), hydrotreated light (64742-47-8): Carcinogens: (Category 3B (could be carcinogenic for man, isomers in technical mixtures)) | Pregnancy: (no risk to embryo/fetus if exposure limits adhered to)

# **Exposure controls**

**Engineering** 

No data available

Measures/Controls

**Personal Protective Equipment** 

**Pictograms** 





Respiratory

No data available

Eye/Face

Wear safety glasses.

Hands

Wear appropriate gloves.

Skin/Body

Wear long sleeves and/or protective coveralls.

General Industrial Hygiene **Considerations** 

Wash with copious amounts of water.

**Environmental Exposure** 

**Controls** 

Do not apply water to spills; produces extremely slick surfaces.

# Section 9 - Physical and Chemical Properties

# **Information on Physical and Chemical Properties**

Material Description			
Physical Form	Liquid	Appearance/Description	White to off-white emulsion.
Color	White to off-white emulsion.	Odor	Mild Hydrocarbon.
Taste	No data available.	Particulate Type	No data available
Particulate Size	No data available	Aerosol Type	No data available
Odor Threshold	No data available	Physical and Chemical Properties	No data available
General Properties			
Boiling Point	No data available	Melting Point	No data available
Decomposition Temperature	No data available	Heat of Decomposition	No data available
рН	4.5 to 5 @ 72 F(22.2222 C) 1% Aqueous Solution	Specific Gravity/Relative Density	1.02 to 1.04 Water=1 @ 72 F (22.2222 C)
Density	8.5 to 8.7 lbs/gal @ 72 F(22,2222 C)	Bulk Density	No data available
Water Solubility	Not relevant	Solvent Solubility	No data available
Viscosity	300 to 900 Centipoise (cPs, cP) or mPas @ 76 F(24.4444 C)	Explosive Properties	No data available
Oxidizing Properties:	No data available		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	VOC (Wt.)	20 to 25 %
VOC (Vol.)	No data available	Volatiles (Wt.)	No data available
Volatiles (Vol.)	No data available		
Flammability			
Flash Point	> 200 F(> 93.3333 C) TCC (Tagliabue Closed Cup)	UEL	No data available
LEL	No data available	Autoignition	No data available
Self-Accelerating Decomposition Temperature (SADT)	No data available	Heat of Combustion (ΔHc)	No data available
Burning Time	No data available	Flame Height	No data available
Flame Extension	No data available	Ignition Distance	No data available
Flame Duration	No data available	Flammability (solid, gas)	Separated oil phase has a reported flashpoint of 174 F
Environmental	•		-
Half-Life	No data available	Octanol/Water Partition coefficient	No data available
Coefficient of water/oil distribution	No data available	Bioaccumulation Factor	No data available
Bioconcentration Factor	No data available	Biochemical Oxygen Demand BOD/BOD5	No data available
Chemical Oxygen Demand	No data available	Persistence	No data available
Degradation	No data available		

# Section 10: Stability and Reactivity

# Reactivity

• No dangerous reaction known under conditions of normal use.

# **Chemical stability**

 Some phase separation may occur overtime. Vigorous mixing will re -establish emulsion.

# Possibility of hazardous reactions

• Hazardous polymerization will not occur.

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# Conditions to avoid

Do not add water to product; solidification may occur.

# Incompatible materials

Store away from Oxidizers, Acids, and or Bases.

# **Hazardous decomposition products**

Under fire conditions oxides of carbon and nitrogen may be produced.

# Section 11 - Toxicological Information

# Information on toxicological effects

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Data lacking UN GHS • Data lacking
Aspiration Hazard	OSHA HCS 2012 • Data lacking UN GHS • Data lacking
Carcinogenicity	OSHA HCS 2012 • Data lacking UN GHS • Data lacking
Germ Cell Mutagenicity	OSHA HCS 2012 • Data lacking UN GHS • Data lacking
Skin corrosion/Irritation	OSHA HCS 2012 • Data lacking UN GHS • Data lacking
Skin sensitization	OSHA HCS 2012 • Data lacking UN GHS • Data lacking
STOT-RE	OSHA HCS 2012 • Data lacking UN GHS • Data lacking
STOT-SE	OSHA HCS 2012 • Data lacking UN GHS • Data lacking
Toxicity for Reproduction	OSHA HCS 2012 • Data lacking UN GHS • Data lacking
Respiratory sensitization	OSHA HCS 2012 • Data lacking UN GHS • Data lacking
Serious eye damage/Irritation	OSHA HCS 2012 • Data lacking UN GHS • Data lacking

# Medical Conditions Aggravated by Exposure Potential Health Effects Inhalation

No data available.

Acute (Immediate)

Under normal conditions of use, no health effects are expected.

**Chronic (Delayed)** 

Under normal conditions of use, no health effects are expected.

Skin

Acute (Immediate)

• Under normal conditions of use, no health effects are expected.

Chronic (Delayed)

• Under normal conditions of use, no health effects are expected.

Eye

Acute (Immediate)

Causes serious eye irritation.

**Chronic (Delayed)** 

Ingestion

Acute (Immediate)

**Chronic (Delayed)** 

Other

Acute (Immediate)

Chronic (Delayed)

Mutagenic Effects
Carcinogenic Effects

**Reproductive Effects** 

• Under normal conditions of use, no health effects are expected.

• Under normal conditions of use, no health effects are expected.

Under normal conditions of use, no health effects are expected.

• Under normal conditions of use, no health effects are expected.

• Under normal conditions of use, no health effects are expected.

No data available.

No data available.

No data available.

# **Section 12 - Ecological Information**

# **Toxicity**

Material data lacking.

# Persistence and degradability

Material data lacking.

# **Bioaccumulative potential**

Material data lacking.

**Mobility in Soil** 

Material data lacking.

### Other adverse effects

No studies have been found.

Ecological Fate

Potential Environmental

**Effects** 

Other Information

Material data lacking.

Material data lacking.

Material data lacking.

# Section 13 - Disposal Considerations

### Waste treatment methods

**Product waste** 

 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

# Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	NDA	NDA	NDA	NDA	NDA

TDG	NDA	NDA	NDA	NDA	NDA
IATA/ICAO	NDA	NDA	NDA	NDA	NDA

**Special precautions for user** • No special precautions.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Other information

- No data available
- Protect from freezing.

# Section 15 - Regulatory Information

# Safety, health and environmental regulations/legislation specific for the substance or mixture **SARA Hazard Classifications** • No data available

Inventory				
Component	CAS	Canada DSL	EU EINECS	TSCA
Cationic Polyacrylamide	35429-19-7	Yes	No	Yes
Deionized Water	7732-18-5	Yes	Yes	Yes
Distillates (petroleum), hydrotreated light	64742-47-8	Yes	Yes	Yes

### Australia

Laboi		
Australia - High	Volume Industrial	<b>Chemicals List</b>

· Distillates (petroleum), hydrotreated light 64742-47-8 · Deionized Water 7732-18-5 · Cationic Polyacrylamide 35429-19-7 Not Listed

### Australia - List of Designated Hazardous Substances - Classification

· Distillates (petroleum), hydrotreated light 64742-47-8 Xn R65 Deionized Water 7732-18-5 Not Listed 35429-19-7 · Cationic Polyacrylamide Not Listed

## Canada

### Labor Canada - WHMIS - Classifications of Substances

· Distillates (petroleum), hydrotreated light 64742-47-8 Not Listed Uncontrolled product · Deionized Water 7732-18-5 according to WHMIS classification criteria · Cationic Polyacrylamide Not Listed 35429-19-7

### Other Canada - Accelerated Reduction/Elimination of Toxics (ARET)

Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
Deionized Water	7732-18-5	Not Listed
Cationic Polyacrylamide	35429-19-7	Not Listed

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# **Europe**

Distillates (petroleum), hydrotreated light	64742-47-8	Xn; R65
Deionized Water	7732-18-5	Not Listed
Cationic Polyacrylamide	35429-19-7	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling		
Distillates (petroleum), hydrotreated light	64742-47-8	Xn R:65 S:(2)-23-24-62
Deionized Water	7732-18-5	Not Listed
Cationic Polyacrylamide	35429-19-7	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases		
Distillates (petroleum), hydrotreated light	64742-47-8	S:(2)-23-24-62
Deionized Water	7732-18-5	Not Listed
Cationic Polyacrylamide	35429-19-7	Not Listed

# Germany

nvironment Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes		
Distillates (petroleum), hydrotreated light	64742-47-8	ID Number 5350, hazard class 1 - low hazard to waters
Deionized Water	7732-18-5	Not Listed
		ID Number 717, hazard class for a low hazard to waters (footnote 8, with cation
Cationic Polyacrylamide	35429-19-7	strength <=15%); ID Number 812, hazard class 2 - hazard to waters (footnote 8, with cation strength >15%)

# **United States - Texas**

U.S Texas - Effects Screening Levels - Long Term		
Distillates (petroleum), hydrotreated light	64742-47-8	350 µg/m3 ESL
Deionized Water	7732-18-5	Not Listed
Cationic Polyacrylamide	35429-19-7	Not Listed
U.S Texas - Effects Screening Levels - Short Term		
U.S Texas - Effects Screening Levels - Short Term		3500 μg/m3 ESL (additiona
<ul> <li>U.S Texas - Effects Screening Levels - Short Term</li> <li>Distillates (petroleum), hydrotreated light</li> </ul>	64742-47-8	3500 µg/m3 ESL (additional numbers listed under this
· ·	64742-47-8	10
· ·	64742-47-8 7732-18-5	numbers listed under this

# **Section 16 - Other Information**

# Relevant Phrases (code & full text)

H319 - Causes serious eye irritation
 R36 - Irritating to eyes.

# **Preparation By**

Technical Department

# Last Revision Date Preparation Date Disclaimer/Statement of Liability

Hygiene

- 26/February/2014
- 26/February/2014
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