

REQUEST FOR BIDS

The City of Las Vegas, New Mexico will open Sealed Bids at 2:30 p.m., Dec 29, at the City Council Chambers, 1700 North Grand Avenue, Las Vegas, New Mexico, or other designated area at the City Offices; ON THE FOLLOWING:

RE-BID CLARIFLOC C-358 POLYMER

The BIDDING FORMS AND TECHNICAL SPECIFICATIONS may be examined at the following location: **1700 N. GRAND AVE LAS VEGAS NM 87701 phone (505) 545-1401**

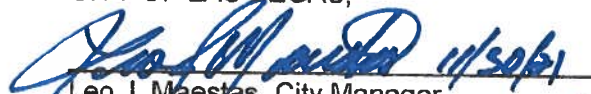
Copies of the BIDDING FORMS AND TECHNICAL SPECIFICATIONS may be examined at the following location: City Clerk's Office at 1700 North Grand Avenue, Las Vegas, NM 87701 or www.lasvegasnm.gov

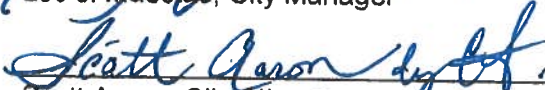
Mailed bids should be addressed to the City Clerk, 1700 N. Grand Ave., Las Vegas, New Mexico 87701; with the envelope marked: **RE-BID CLARIFLOC C-358 POLYMER**


Opening No. 2022-21; on the lower left-hand corner of the submitted envelope. It shall be the responsibility of the Offeror to see that their bid is delivered to the **City Clerk** by the date and time set for the bid request. If the mail or delivery of bid request is delayed beyond the opening date and time, bid thus delayed will not be considered. A public opening will be held and any bidder or their authorized representative is invited to attend.

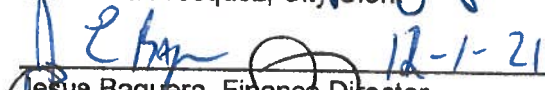
The City of Las Vegas reserves the right to reject any/or all bids submitted.

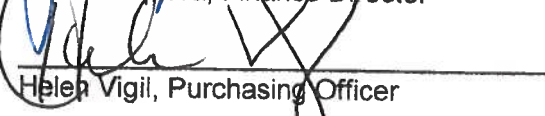
CITY OF LAS VEGAS,


Leo J. Maestas, City Manager


Scott Aaron, City Attorney


Casandra Fresquez, City Clerk


Jesus Baquera, Finance Director


Helen Vigil, Purchasing Officer

Opening No. 2022-21

Date Issued: 12/3/2021

Published:	<u>LAS VEGAS OPTIC</u>	<u>Dec 10</u>	<u>,2021</u>
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	<u>www.lasvegasnm.gov</u>	<u>Dec 10</u>	<u>,2021</u>

BIDDER INFORMATION

OFFEROR: _____

AUTHORIZED AGENT: _____

ADDRESS: _____

TELEPHONE NUMBER (_____) _____

FAX NUMBER (_____) _____

DELIVERY: _____

STATE PURCHASING RESIDENT CERTIFICATION NO.: _____

NEW MEXICO CONTRACTORS LICENSE NO.: _____

BID ITEM (S): **RE-BID CLARIFLOC C-358 POLYMER**

ITEM (S) UNDER THIS BID ARE TO BE F.O.B. LAS VEGAS, NEW MEXICO 87701. THE CITY OF LAS VEGAS RESERVES THE RIGHT REJECT ANY OR ALL BIDS AND TO WAIVE ANY TECHNICAL IRREGULARITY IN THE FORM OF THE BID.

AFFIDAVIT FOR FILING WITH COMPETITIVE BID

STATE OF _____ }

COUNTY OF _____ } ss

I, _____, being of first duly sworn, state under penalty of perjury that I am at least eighteen years of age, and am the agent authorized by the bidder to submit the attached bid. Affiant further states that the bidder has not been a party to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding; or with any city official or employee as to the terms of said prospective contract, or any other terms of said prospective contract; or in any discussion between bidders with any city official concerning an exchange of money or any other thing of value for special consideration in the letting of a contract.

Signature

Subscribed and sworn to before me, this _____ day of _____, 20_____.

(SEAL)

Notary Public Signature

My Commission Expires: _____

STANDARD BID CLAUSES

AWARDED BID

Awarding of bid shall be made to the responsible Bidder whose Bid best meets the required specifications. The City of Las Vegas (City) reserves the right to reject or accept any of all Bid specifications and to waive any insubstantial irregularity in the form of the Bid.

TIMETABLE

Bid pursuant to this request must be received at the City Clerk's Office at 1700 North Grand Avenue, Las Vegas, New Mexico, on or before: Dec 29, 2021; 2:30 p.m.; at which time all bids received will be opened. An opening will occur at the City's Council Chambers or other designated area at the City Offices. Awarding of Bid is projected for _____, 2021. The successful Bidder will be notified by mail.

ENVELOPES

Sealed Bid envelopes shall be clearly marked on the lower left-hand corner, identified by the Bid Name and Opening Number. Failure to comply with this requirement may result in the rejection of the submitted Bid.

BRIBERY AND KICKBACK

The Procurement Code (NMSA 13-1-28 through 13-1-199) imposes a third degree felony penalty for bribery of a public official or public employee. In addition, the New Mexico Criminal Statutes (NMSA 30-24-1 and 30-24-2) state that it is a third degree felony to commit the offense of demanding or receiving a bribe by a public official or public employee, and it is a fourth degree felony to commit the offense of soliciting or receiving illegal kickbacks. NMSA 30-41-1 through 30-41-3 include that it is a fourth degree felony to commit the offense of offering or paying illegal kickbacks.

NON-COLLUSION

In signing their Bid and Affidavit, the Bidder certifies that he/she has not, either directly or indirectly, entered into action of restraint of free competition, in connection with the submitted bid.

RESPONSIBILITY OF BIDDER

At all times it shall be the responsibility of the Bidder to see that their bid is delivered to the City Clerk by the Date and Time scheduled for opening. If the mail or delivery of said Bid is delayed beyond the scheduled opening date and time set, this bid will not be considered.

CLARIFICATION OF BID

Bidder requiring clarification or interpretation of Bid specifications shall make a written request to the Department involved in this bid request at least five (5) days prior to the scheduled bid opening date; with a copy forwarded to the Finance Department. Any interpretation, corrections, or changes of said Bid Specifications, Opening Date, or Time Change will be made by Addendum only. Interpretations, Corrections or changes of said Bid made in any other manner will not be binding and the Bidder shall not rely upon such interpretation, corrections and changes.

MODIFICATION OF BID

Bids may be withdrawn upon receipt of written request prior to the scheduled bid opening for the purpose of making any corrections or changes. Such corrections must be properly identified and signed or initialed by the Bidder. Resubmission must be prior to the scheduled bid opening time in order to be considered. After bid opening, no price modifications of submitted bids or other

provisions shall be permitted.

WITHDRAWAL OF BID

A low Bidder alleging a material mistake of fact, after bids have been opened may request their bid be withdrawn upon receipt of a written request to the Finance Department prior to the scheduled awarding date.

INSPECTION

Final inspection and acceptance will be made at the City's discretion. Products rejected for nonconformance with the specifications shall be removed by the Bidder, at his/her risk and expense promptly after notice of rejection.

FEDERAL TAX IDENTIFICATION NUMBER

Pursuant to IRS requirements, Bidder shall provide their Federal Tax ID Number if Bidder is incorporated. If Bidder is a sole proprietorship or partnership they then shall provide their Social Security Number.

FEDERAL TAX ID NUMBER: _____

SOCIAL SECURITY NUMBER: _____

NEW MEXICO TAX IDENTIFICATION NUMBER

Payment may be withheld under (Section 7-10-5, N.M.S.A. 1978) if you are subject to New Mexico Gross Receipts Tax and have not registered for New Mexico (CRS) Tax Identification Number. Contact the New Mexico Taxation & Revenue Department at (505) 827-0700 for registering instructions.

NEW MEXICO TAX IDENTIFICATION NO. (CRS): _____

CAMPAIGN CONTRIBUTION DISCLOSURE FORM

The Bidder shall submit a complete Campaign Contribution Disclosure Form Pursuant to NMSA 13-1-191.1, as amended.

COMMERCIAL WARRANTY

The Bidder agrees that the products or services furnished under a Purchase Order shall be covered by the most favorable commercial warranties that the Bidder gives to any customer for such products or services. And that the rights and remedies provided therein shall extend to the City and are in addition to and do not limit any rights afforded to the City by any other clause of its Purchase Order. Bidder agrees not to disclaim warranties of fitness for any particular purpose or merchantability.

Furthermore, Bidder agrees that its warranty for all products furnished under a Purchase Order pursuant to this Call for Bids shall be for a period of one year following the installation of said products by others. The Bidder agrees that prior to receiving payment, Bidder shall provide to the City written notice by the City's Engineer that the products have been installed correctly and have been demonstrated to be capable of performing their intended function.

SPECIAL NOTICE

To preclude possible errors and/or misinterpretations, bid prices must be affixed in ink or typewritten legibly. Enclose one (1) original and five (5) copies of Bid documents.

DEFAULT

The City reserves the right to cancel all or any part of an order without cost to the City if the Bidder fails to meet the provision of the City's Purchase Order or the product specifications and to hold the Bidder liable for any excess costs occasioned due to the Bidder's default. The Bidder shall not be liable for any excess costs if failure to perform on an order arises out of cause beyond the control and without fault or negligence of the Bidder. Such causes include but are not restricted to acts of GOD or public enemy; acts of State or Federal Government; fires, floods, epidemics, quarantine restrictions, strikes, embargoes, unusually severe weather, or defaults of subcontractors. Due to any of the above, unless the City shall determine that the supplies or services to be furnished by the subcontractor are obtainable from other sources in the City, this paragraph shall not be exclusive and shall be in addition to any other rights now being provided by law.

BID PROTESTS

If any bidder is of the opinion that the specifications as written preclude him/her from submitting a bid, his/her opinion should be made known to the Department involved in this bid request at least fifteen (15) days prior to the scheduled bid opening date with a copy forwarded to the Finance Department. Bid protests will not be considered from parties who do not also furnish satisfactorily documentation with their protest that their proposed system fully meets the functional intent of the TECHNICAL SPECIFICATIONS which accompany a Call for Bids.

NON-EXCLUSION

Specifications of the bid request are not meant to exclude any Bidder or Manufacturer. Where a brand name or equal is indicated, it is for the purpose of describing the standard of quality, performance and characteristics desired and is not intended to restrict competition. "No Substitute" specifications may be authorized, only if required to match existing equipment.

If any Bidder is of the opinion that the specifications as written preclude him/her from submitting a bid, his/her opinion should be made known to the Department involved in this bid request at least five (5) days prior to the scheduled bid opening date, with a copy forwarded to the Finance Department.

Brand names and numbers are for reference only and equivalents will be considered. If bidding "EQUIVALENT" Bidder must be prepared to furnish complete data upon request, preferably with the bid to avoid awarding delay.

CONTRACT

When the City issues a Purchase Order in response to an awarded Bid a binding contract is created (unless a specific contract has been created).

TERMINATION

This Price Agreement may be terminated by either party upon signing a written notice to the other party at least thirty (30) days in advance of the date of termination. Notice of termination of this Price Agreement shall not affect any outstanding orders.

TAXES:

Bidder must pay all applicable taxes.

NOTE:

If bidder is from outside the City of Las Vegas, the successful bidder must pay Gross Receipts Tax in the City of Las Vegas.

CITY OF LAS VEGAS
BIDFORM

BID ITEM (S): RE-BID CLARIFLOC C-358 POLYMER
SEE SPECIFICATIONS ATTACHED

0

A.	_____	\$	_____
B.	_____	\$	_____
C.	_____	\$	_____
D.	_____	\$	_____
E.	_____	\$	_____
F.	_____	\$	_____
G.	_____	\$	_____
H.	_____	\$	_____
I.	_____	\$	_____
J.	_____	\$	_____
K.	_____	\$	_____
L.	_____	\$	_____

NOTE:

CAMPAIGN CONTRIBUTION DISCLOSURE FORM

Pursuant to the Procurement Code, NMSA 13-1-28, *et al*, as amended, a prospective contractor subject to this section shall disclose all campaign contributions given by the prospective contractor or a family member or representative of the prospective contractor to an applicable public official of the state or a local public body during the two years prior to the date on which a proposal is submitted or, in the case of a sole source or small purchase contract, the two years prior to the date on which the contractor signs the contract, if the aggregate total of contributions given by the prospective contractor or a family member or representative of the prospective contractor to the public official exceeds two hundred fifty dollars (\$250.00) over the two-year period. A prospective contractor submitting a disclosure statement pursuant to this section who has not contributed to an applicable public official, whose family members have not contributed to an applicable public official or whose representatives have not contributed to an applicable public official shall make a statement that no contribution was made.

A prospective contractor or a family member or representative of the prospective contractor shall not give a campaign contribution or other thing of value to an applicable public official or the applicable public official's employees during the pendency of the procurement process or during the pendency of negotiations for a sole source or small purchase contract.

Furthermore, a solicitation or proposed award for a proposed contract may be canceled pursuant to NMSA 13-1-181 or a contract that is executed may be ratified or terminated pursuant to NMSA 13-1-18 if a prospective contractor fails to submit a fully completed disclosure statement pursuant to this section; or a prospective contractor or family member or representative of the prospective contractor gives a campaign contribution or other thing of value to an applicable public official or the applicable public official's employees during the pendency of the procurement process.

The state agency or local public body that procures the services or items of tangible personal property shall indicate on the form the name or names of every applicable public official, if any, for which disclosure is required by a prospective contractor.

THIS FORM MUST BE INCLUDED IN THE REQUEST FOR PROPOSALS AND MUST BE FILED BY ANY PROSPECTIVE CONTRACTOR WHETHER OR NOT THEY, THEIR FAMILY MEMBER, OR THEIR REPRESENTATIVE HAS MADE ANY CONTRIBUTIONS SUBJECT TO DISCLOSURE.

The following definitions apply:

"Applicable public official" means a person elected to an office or a person appointed to complete a term of an elected office, who has the authority to award or influence the award of the contract for which the prospective contractor is submitting a competitive sealed proposal or who has the authority to negotiate a sole source of small purchase contract that may be awarded without submission of a sealed competitive proposal.

"Campaign Contribution" means a gift, subscription, loan, advance or deposit of money or other thing of value, including the estimated value of an in-kind contribution, that is made to or received by an applicable public official or any person authorized to raise, collect or expend contributions on that official's behalf for the purpose of electing the official to statewide or local office. "Campaign Contribution" includes the payment of a debt incurred in an election campaign, but does not include the value of services provided without compensation or unreimbursed travel or other personal expenses of individuals who volunteer a portion or all of their time on behalf of a candidate or political committee, nor does it include the administrative or solicitation expenses of a political committee that are paid by an organization that sponsors the committee.

"Family member" means a spouse, father, mother, child, father-in-law, mother-in-law, daughter-in-law or son-in-law of (a) a prospective contractor, if the prospective contractor is a natural person; or (b) an owner of a prospective contractor;

"Pendency of the procurement process" means the time period commencing with the public notice of the request for proposals and ending with the award of the contract or the cancellation of the request for proposals.

“Prospective contractor” means a person or business that is subject to the competitive sealed proposal process set forth in the Procurement Code [NMSA 13-1-28 through 13-1-199] or is not required to submit a competitive sealed proposal because that person or business qualifies for a sole source or small purchase contract.

“Representative of a prospective contractor” means an officer or director of a corporation, a member or manager of a limited liability corporation, a partner of a partnership or a trustee of a trust of the prospective contractor.

Name(s) of Applicable Public Official(s) if any: _____
(Completed by State Agency or Local Public Body)

DISCLOSURE OF CONTRIBUTIONS BY PROSPECTIVE CONTRACTOR:

Contribution Made By: _____
Relation to Prospective Contractor: _____
Date Contribution(s) Made: _____
Amount(s) of Contribution(s) _____
Nature of Contribution(s) _____
Purpose of Contribution(s) _____

(Attach extra pages if necessary)

Signature Date

Title (position)

—OR—

NO CONTRIBUTIONS IN THE AGGREGATE TOTAL OVER TWO HUNDRED FIFTY DOLLARS (\$250.00) WERE MADE to an applicable public official by me, a family member or representative.

Signature Date

Title (Position)

SNF

POLYDYNE

CLARIFLOC C-358 POLYMER

CHARACTERISTICS

CLARIFLOC C-358 polymer is a high molecular weight, homopolymer of diallyldimethylammonium chloride. It is an effective organic coagulant for water and wastewater clarification in a wide variety of municipal applications. CLARIFLOC C-358 can partially or totally replace alum, ferric, lime and other inorganic coagulants, thereby reducing sludge volume. Unlike inorganics, it is effective over very wide pH ranges. CLARIFLOC C-358 is NSF certified for clarification of potable water at dosages up to 50 mg/L.

TYPICAL PROPERTIES

Physical Form	Amber Liquid
Density	8.5 - 8.9 lbs/gal
Freezing Point	-3 C.
Solubility	Totally Water Soluble

PREPARATION AND FEEDING

CLARIFLOC C-358 is a solution polymer which can be diluted to any convenient concentration for feeding. No special make-down or activation procedures are necessary. The polymer can be diluted in-line using a static mixer or in a stirred vessel. Diluting to 1-10% product is highly recommended for all clarification application because the coagulant will be distributed more efficiently into the system with less chance of overdose.

MATERIALS OF CONSTRUCTION

Crosslinked polyethylene, fiberglass, stainless steel and lined mild steel are the preferred materials of construction for bulk tanks. Unlined mild steel, black iron, galvanized steel, or copper are not recommended in any part of the polymer feed system. Stainless steel or PVC are the best choice for pump heads and feed lines.

MANUFACTURING SPECIFICATIONS

Specific Gravity	1.02 - 1.04
% Active	19.0 - 22.0
Product Viscosity	700 - 1,000 cPs
Product pH	5.0 - 7.0

HANDLING AND STORAGE

CLARIFLOC C-358 has a suggested in-plant storage life of six months in unopened drums. For best results, store at 40-90 F. Protect from freezing. If the product freezes, allow it to warm up in a heated area and thaw thoroughly before attempting to use it. For spills of CLARIFLOC C-358, sprinkle sawdust or vermiculite over the spill area and sweep the material into approved chemical disposal containers.

PRODUCT SAFETY INFORMATION

CLARIFLOC C-358 is a mildly acidic product that can irritate the skin and eyes, so gloves, rubber apron and goggles should be worn during the handling of this product. Anyone responsible for the procurement, use or disposal of this product should familiarize themselves with the appropriate safety and handling information outlined in the POLYDYNE Material Safety Data Sheet. In the event of an emergency with CLARIFLOC C-358, contact Chemtrec anytime day or night at (800) 424-9300.

SHIPPING

CLARIFLOC C-358 Polymer is shipped in 55 gallon drums containing 450 pounds net and in 275 gallon totes containing 2300 pounds net. Bulk quantities are also available.

ADDITIONAL INFORMATION

To place an order or obtain technical information from any location in the continental United States, call toll free:

(800) 848-7659

For additional information, please refer to the Safety Data Sheet (SDS)

All statements, information and data given herein are believed to be accurate, but are presented without warranty, expressed or implied. Statements concerning possible use are made without representation or warranty that any such use is free of patent infringement, and is not a recommendation to infringe on any patent. The user should not assume that all safety measures are indicated or that other measures may not be required. Any determination of the suitability of a particular product for any use contemplated by the user is the sole responsibility of the user.

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SAFETY DATA SHEET

According to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: **CLARIFLOC™ C-358**

Type of product: Mixture.

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

Identified uses: Processing aid for industrial applications.

Uses advised against: None.

1.3. Details of the supplier of the safety data sheet

Company: Polydyne Inc.
1 Chemical Plant Road
PO BOX 279, Riceboro, GA 31323
United States

Telephone: 1-800-848-7659

Telefax: (912)-884-8770

E-mail address: -

1.4. Emergency telephone number

24-hour emergency number: 1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to paragraph (d) of 29 CFR 1910.1200:

Not classified.

2.2. Label elements

Labelling according to paragraph (f) of 29 CFR 1910.1200:

Hazard symbol(s): None.

Signal word: None.

Hazard statement(s): None.

Precautionary statement(s): None.

2.3. Other hazards

Spills produce extremely slippery surfaces.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable, this product is a mixture.

3.2. Mixtures

This product is a mixture.

Hazardous components

Contains no reportable hazardous substances.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Move to fresh air. No hazards which require special first aid measures.

Skin contact:

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In case of persistent skin irritation, consult a physician.

Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Alternatively, rinse immediately with Diphoterine ®. Get prompt medical attention.

Ingestion:

Rinse mouth with water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed

None under normal use.

4.3. Indication of any immediate medical attention and special treatment needed.

None reasonably foreseeable.

Other information:

None.

SECTION 5: Fire-fighting measures**5.1. Extinguishing media****Suitable extinguishing media:**

Water. Water spray. Foam. Carbon dioxide (CO₂). Dry powder.
Warning! Spills produce extremely slippery surfaces.

Unsuitable extinguishing media:

None.

5.2. Special hazards arising from the substance or mixture**Hazardous decomposition products:**

Carbon oxides (CO_x). Nitrogen oxides (NO_x). Hydrogen chloride. Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

5.3. Advice for fire-fighters**Protective measures:**

Wear self-contained breathing apparatus and protective suit.

Other information:

Spills produce extremely slippery surfaces.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****Personal precautions:**

Do not touch or walk through spilled material. Spills produce extremely slippery surfaces.

Protective equipment:

Wear adequate personal protective equipment (see Section 8 Exposure Controls/Personal Protection).

Emergency procedures:

Keep people away from spill/leak. Prevent further leakage or spillage if safe to do so.

6.2. Environmental precautions

Do not contaminate water.

6.3. Methods and material for containment and cleaning up**Small spills:**

Do not flush with water. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

Large spills:

Do not flush with water. Dam up. Soak up with inert absorbent material. Clean up promptly by scoop or vacuum.

Residues:

After cleaning, flush away traces with water.

6.4. Reference to other sections

SECTION 7: Handling and storage; SECTION 8: Exposure controls/personal protection; SECTION 13: Disposal considerations;

SECTION 7: Handling and storage***7.1. Precautions for safe handling***

Avoid contact with skin and eyes. Renders surfaces extremely slippery when spilled. When using, do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material.

7.3. Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection***8.1. Control parameters******Occupational exposure limits:***

None known.

8.2. Exposure controls**Appropriate engineering controls:**

Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.

Individual protection measures, such as personal protective equipment:***a) Eye/face protection:***

Safety glasses with side-shields.

b) Skin protection:

i) Hand protection: PVC or other plastic material gloves.

ii) Other: Wear coveralls and/or chemical apron and rubber footwear where physical contact can occur.

c) Respiratory protection:

No personal respiratory protective equipment normally required.

d) Additional advice:

Wash hands before breaks and at the end of workday. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls:

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

a) Appearance:	Clear to slightly yellow liquid.
b) Odour:	None.
c) Odour Threshold:	Not applicable.
d) pH:	3 - 7
e) Melting point/freezing point:	< 5°C
f) Initial boiling point and boiling range:	> 100°C
g) Flash point:	Does not flash.
h) Evaporation rate:	No data available.
i) Flammability (solid, gas):	Not applicable.
j) Upper/lower flammability or explosive limits:	Not expected to create explosive atmospheres.
k) Vapour pressure:	2.3 kPa @ 20°C
l) Vapour density:	0.804 g/litre @ 20°C
m) Relative density:	1.0 - 1.2
n) Solubility(ies):	Completely miscible.
o) Partition coefficient:	< 0
p) Autoignition temperature:	Does not self-ignite (based on the chemical structure).
q) Decomposition temperature:	> 150°C
r) Viscosity:	See Technical Bulletin.
s) Explosive properties:	Not expected to be explosive based on the chemical structure.
t) Oxidizing properties:	Not expected to be oxidising based on the chemical structure.

9.2. Other information

None.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Stable under recommended storage conditions.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Protect from frost, heat and sunlight.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Thermal decomposition may produce: hydrogen chloride gas, nitrogen oxides (NO_x), carbon oxides (CO_x). Hydrogen cyanide (hydrocyanic acid).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on the product as supplied:

<i>Acute oral toxicity:</i>	LD50/oral/rat > 5000 mg/kg
<i>Acute dermal toxicity:</i>	LD50/dermal/rat > 5000 mg/kg.
<i>Acute inhalation toxicity:</i>	Testing by the inhalation route is inappropriate because exposure of humans via inhalation is unlikely: the substance has no vapour pressure and there is practically no exposure to inhalable aerosols.
<i>Skin corrosion/irritation:</i>	Not irritating.
<i>Serious eye damage/eye irritation:</i>	Slightly irritating.
<i>Respiratory/skin sensitisation:</i>	Not sensitizing to skin. No respiratory sensitization has been observed in the workplace.
<i>Mutagenicity:</i>	Not mutagenic.
<i>Carcinogenicity:</i>	By analogy with similar substances, this substance is not expected to be carcinogenic.
<i>Reproductive toxicity:</i>	By analogy with similar substances, this substance is not expected to be toxic for reproduction.
<i>STOT - Single exposure:</i>	No known effects.
<i>STOT - Repeated exposure:</i>	No known effect.
<i>Aspiration hazard:</i>	No hazards resulting from the material as supplied.

SECTION 12: Ecological information**12.1. Toxicity**Information on the product as supplied:

<i>Acute toxicity to fish:</i>	LC50/Danio rerio/96 hours > 100 mg/L
<i>Acute toxicity to invertebrates:</i>	EC50/Daphnia magna/48 hours > 100 mg/L.
<i>Acute toxicity to algae:</i>	Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.
<i>Chronic toxicity to fish:</i>	No data available.
<i>Chronic toxicity to invertebrates:</i>	No data available.
<i>Toxicity to microorganisms:</i>	EC0/activated sludge/0.5 hours = 1000 mg/L (OECD 209)
<i>Effects on terrestrial organisms:</i>	Exposure to soil is unlikely.
<i>Sediment toxicity:</i>	Exposure to sediment is unlikely.

12.2. Persistence and degradabilityInformation on the product as supplied:

<i>Degradation:</i>	Not readily biodegradable.
<i>Hydrolysis:</i>	Does not hydrolyse.
<i>Photolysis:</i>	No data available.

12.3. Bioaccumulative potentialInformation on the product as supplied:

Not bioaccumulating.	
<i>Partition co-efficient (Log Pow):</i>	< 0
<i>Bioconcentration factor (BCF):</i>	~0

12.4. Mobility in soilInformation on the product as supplied:

Exposure to soil is not to be expected.

Koc: ~0

12.5. Other adverse effects

None.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products:

Dispose in accordance with local and national regulations.

Contaminated packaging:

Rinse empty containers with water and use the rinse-water to prepare the working solution. If recycling is not practicable, dispose of in compliance with local regulations.

Recycling:

Store containers and offer for recycling of material when in accordance with the local regulations.

SECTION 14: Transport information

Land transport (DOT)

Not classified.

Sea transport (IMDG)

Not classified.

Air transport (IATA)

Not classified.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Information on the product as supplied:

TSCA Chemical Substances Inventory:

All components of this product are either listed on the inventory or are exempt from listing.

US SARA Reporting Requirements:

SAFETY DATA SHEET

CLARIFLOC™ C-358

SARA (Section 311/312) hazard class:
Not concerned.

SARA Title III Sections:

Section 302 (TPQ) - Reportable Quantity:
Not concerned.

Section 304 - Reportable Quantity:
Not concerned.

Section 313 (De minimis concentration):
Not concerned.

Clean Water Act

Section 311 Hazardous Substances (40 CFR 117.3) - Reportable Quantity:
Not concerned.

Clean Air Act

Section 112(r) Accidental release prevention requirements (40 CFR 68) - Reportable Quantity:
Not concerned.

CERCLA

Hazardous Substances List (40 CFR 302.4) - Reportable Quantity:
Not concerned.

RCRA status :

Not RCRA hazardous.

California Proposition 65 Information:

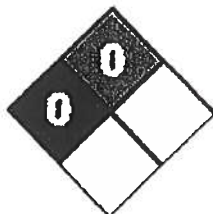
Not concerned.

SECTION 16: Other information

NFPA and HMIS Ratings:

NFPA:

Health:	0
Flammability:	0
Instability:	0

**HMS:**

Health: 0
Flammability: 0
Physical Hazard: 0
PPE Code: B

This data sheet contains changes from the previous version in section(s):

SECTION 5. Fire-fighting measures, SECTION 8. Exposure controls/personal protection, SECTION 15. Regulatory information, SECTION 16. Other Information.

Key or legend to abbreviations and acronyms used in the safety data sheet:

Acronyms

STOT = Specific target organ toxicity

Training advice:

Do not handle until all safety precautions have been read and understood.

This SDS was prepared in accordance with the following:

U.S. Code of Federal Regulations 29 CFR 1910.1200

Version: 17.01.a

LDCC010A

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.