

# MATERIAL SAFETY DATA SHEET

## OMEGA ALL NATURAL CONCENTRATED CLARIFIER

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer's Name:	Qualco, Inc.
Corporate Address:	225 Passaic Street / Passaic, NJ 07055
Manufacturer's Telephone:	973-473-1222
Emergency Telephone:	800-424-9300 (Chemtrec)(24 hours)
Material/Trade Product Name:	Omega All Natural Concentrated Clarifier
Synonyms:	None
Chemical Name:	Chitosan Acetate Solution
Chemical Formula:	Not Available
CAS No.:	Not Applicable
EPA Registration No.	Not Applicable
Product Use:	Water Flocculant

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	COMPONENT	%	OSHA HAZARDOUS
Trade Secret	Trade Secret	2	No
	All other components are non-hazardous	98	No

*Note: See Section 8 for permissible exposure limits*

### SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:	Green or blue viscous liquid with a pungent vinegar odor. May be mildly irritating to eyes. Not likely to be hazardous to skin, respiratory tract or by ingestion.
---------------------	--

#### POTENTIAL HEALTH EFFECTS:

EYE:	May be mildly irritating to eyes.
SKIN:	Not hazardous to skin
INHALATION:	Not likely to be hazardous by inhalation
INGESTION:	Not likely to be hazardous by ingestion
CHRONIC EXPOSURE / CARCINOGENICITY:	None of the components present in this material at concentrations of equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.
SIGNS AND SYMPTOMS OF OVEREXPOSURE:	Eye irritation
AGGRAVATION OF PRE- EXISTING CONDITIONS:	None Known.

#### POTENTIAL ENVIRONMENTAL EFFECTS:

Material is 100% biodegradable and nontoxic.

### SECTION 4: FIRST AID MEASURES

#### FIRST AID PROCEDURES

EYE CONTACT:	Remove contact lenses (if applicable), flush with water for 15 minutes. Call a physician.
SKIN CONTACT:	Cleansing the skin after exposure is advisable.
INHALATION:	If large amounts of fumes are inhaled, remove to fresh air and consult a physician.
INGESTION:	Consult a physician if necessary.

#### SECTION 4: FIRST AID MEASURES (con't)

NOTE TO PHYSICIANS: None.

#### SECTION 5: FIRE FIGHTING MEASURES

<b>FLASH POINT:</b>	Not Available	<b>AUTOIGNITION TEMPERATURE:</b>	Not Available
<b>UPPER FLAMMABLE LIMIT</b>	Not Available	<b>LOWER FLAMMABLE LIMIT</b>	Not Available
<b>FLAMMABILITY CLASS (OSHA):</b>	Not Applicable	<b>FLAME PROPAGATION/BURNING RATE:</b>	Not Available

#### UNIQUE FIRE PROPERTIES:

None known.

#### HAZARDOUS COMBUSTION PRODUCTS:

None.

#### EXTINGUISHING MEDIA:

Does not burn. Use water, dry chemicals, carbon dioxide, sand or foam. Use extinguishing media appropriate for surrounding fire.

#### PROTECTION OF FIREFIGHTERS:

Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coat, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Water may be used to keep fire-exposed containers cool until fire is out.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>PERSONAL PROTECTIVE EQUIPMENT:</b>	See Section 8 (Personal Protective Equipment)
<b>ENVIRONMENTAL PRECAUTIONS:</b>	Material is 100% biodegradable and nontoxic.
<b>METHODS FOR CLEANING UP:</b>	Dilute with water and hose down.

#### SECTION 7: HANDLING AND STORAGE

##### SAFE HANDLING RECOMMENDATIONS

<b>VENTILATION:</b>	General ventilation should be sufficient under normal conditions
<b>FIRE PREVENTION:</b>	Non-Flammable, no special fire protection required
<b>SPECIAL HANDLING REQUIREMENTS:</b>	Avoid eye contact

##### SAFE STORAGE RECOMMENDATIONS

<b>CONTAINMENT:</b>	The container should be kept covered to prevent contamination
<b>STORAGE ROOM RECOMMENDATIONS:</b>	Store in a cool, dry, well ventilated area away from direct heat.
<b>INCOMPATIBLE MATERIALS:</b>	Strong oxidizing material and strong bases.
<b>STORAGE CONDITIONS:</b>	10-50°C recommended (will freeze @ -3°C). Shelf life is indefinite but viscosity will decrease over time.

#### SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

General ventilation should be sufficient under normal conditions.

##### PERSONAL PROTECTIVE EQUIPMENT (PPE)

<b>EYE/FACE PROTECTION:</b>	Safety glasses recommended
<b>SKIN PROTECTION:</b>	For operations where skin contact can occur, wear coveralls
<b>HAND PROTECTION:</b>	For operations where hand contact can occur, rubber gloves recommended.
<b>RESPIRATORY PROTECTION:</b>	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Respirator use is not required for this product.

## SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

GOOD HYGIENE/WORK PRACTICES:	Always follow good hygiene/work practices by avoiding vapors or mists and contact with eyes and skin. Thoroughly wash hands after handling and before eating or drinking. Always wear the appropriate PPE when repairing or performing maintenance on contaminated equipment.
------------------------------	---

### EXPOSURE GUIDELINES

#### PERMISSIBLE EXPOSURE LIMITS

INGREDIENT CAS NO.	OSHA		WISHA		ACGIH (TLV)	
	TWA	STEL	TWA	STEL	TWA	STEL
102-71-6	Not applicable	Not applicable	Not applicable	Not applicable	5 mg/m <sup>3</sup>	Not applicable

## SECTION 9: STABILITY AND REACTIVITY

COLOR:	Blue or green	SHAPE:	Viscous Liquid
PHYSICAL FORM:	Viscous Liquid	ODOR:	Pungent vinegar odor
pH:	3.0-4.5	VAPOR PRESSURE:	Not Available
VAPOR DENSITY:	Not available	BOILING POINT:	211°F
MELTING POINT:	Not available	FREEZING POINT:	Not available
SOLUBILITY IN WATER	Soluble	SPECIFIC GRAVITY	1.0 – 1.1 g/ml

*NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Values should not be construed as a guaranteed analysis of any specific lot or as specifications.*

## SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable
CONDITIONS TO AVOID:	Freezing temperatures or excess heat (for quality purposes)
MATERIALS TO AVOID (INCOMPATIBILITY):	Strong oxidizing material and strong bases
HAZARDOUS DECOMPOSITION PRODUCTS:	Decomposition will not occur
HAZARDOUS POLYMERIZATION:	Will not occur

## SECTION 11: TOXICOLOGICAL INFORMATION

ORAL LD50 (rat):	Not available
DERMAL LD50 (rabbit):	Not available
INHALATION:	Not available
SKIN IRRITATION:	Not available
EYE IRRITATION:	Not available
SKIN SENSITIZATION:	Not available
ADDITIONAL INFORMATION:	Not applicable

## SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY (in water):	
ACUTE:	Daphnia LC 50 – 1369 mg/L
	Daphnia NOEC – 1000 mg/L
	Fathead minnows LC50 642 mg/L
	Fathead minnows NOEC – 500 mg/L
	Rainbow Trout LC 50 – 173 mg/L
	Rainbow Trout NOEC – 125 mg/L

## SECTION 12: ECOLOGICAL INFORMATION

CHRONIC:	Rainbow Trout LC50 – 154 mg/L
	Rainbow Trout LC50 - > 1000 mg/L
	Fathead Minnow LC25 – 932 mg/L

## SECTION 13: DISPOSAL CONSIDERATIONS

If this product as supplied becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

*NOTE: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.*

## SECTION 14: TRANSPORT INFORMATION

### U.S. DEPARTMENT OF TRANSPORTATION (DOT)

*When transported by motor vehicles, rail cars or aircraft in 119 gallon or less containers:*

PROPER SHIPPING NAME:	Not regulated
HAZARD CLASS:	Not regulated
IDENTIFICATION NUMBER (UN NUMBER):	Not regulated
PACKING GROUP (PG):	Not regulated

## SECTION 15: REGULATORY INFORMATION

TSCA STATUS:	The substances in this preparation are included on or exempted from the TSCA 8(b) inventory (40CFR 710)
--------------	---

### CERCLA REPORTABLE QUANTITY (RQ):

CHEMICAL NAME	RQ
Not applicable	Not applicable

### SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (EHS)

CHEMICAL NAME	TPQ	RQ
Not applicable	Not applicable	Not applicable

### SARA TITLE III SECTION 311/312 HAZARD CATEGORIES:

Does this product/material meet the definition of the following hazard classes according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of SARA Title III?

ACUTE HEALTH HAZARD	CHRONIC HEALTH HAZARD	FIRE HAZARD	REACTIVE HAZARD	SUDDEN RELEASE OF PRESSURE
No	No	No	No	No

### SARA TITLE III SECTION 313 TOXIC CHEMICALS INFORMATION:

CHEMICAL NAME	CAS NO.	CONCENTRATION (%)
Not applicable	Not applicable	Not applicable

### CALIFORNIA PROPOSITION 65:

The following chemical(s) is/are known to the state of California to cause cancer or reproductive toxicity.

CHEMICAL NAME	CHEMICAL NAME	CHEMICAL NAME
Not applicable	Not applicable	Not applicable

## SECTION 16: OTHER INFORMATION

### REVISED INFORMATION:

MSDS section(s) changed since last revision of document: Section 13. Designation of product waste was changed from hazardous waste to non-hazardous waste.

### DISCLAIMER:

The above information is based upon information that is believed to be reliable and is supplied for informational purposes only. Qualco, Inc. disclaims any liability for damage which results from the use of the above information and nothing contained therein shall constitute a guarantee, warranty (including fitness for a particular purpose) or representation with respect to the accuracy or completeness of the data, the product described or their use for any specific purpose even if that purpose is known to Qualco, Inc. The final determination of the suitability of the information, the manner of use of the information or product and potential infringement is the sole responsibility of the user.

MSDS prepared by: Lab