



# SAFETY DATA SHEET

**Product name** ClearView Crystal Clarifier

**Revision date** 6-11-14

**Product ID:** Crystal Clarifier

**Chemical Name:** Not Available  
**Synonyms:** Not Available  
**Chemical Formula:** Not Available  
**CAS Number:** Not Available  
**Product Use:** Water Clarifier

**Supplier:** Oreq Corporation  
42306 Remington Avenue  
Temecula, CA 92590  
951-296-5076

**Emergency Phone#** Chemtrec: 1-800-424-9300

**OSHA/HCS status:** This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**GHS Classification:** SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B

**GHS SIGNAL WORD:** WARNING

**HAZARD PICTOGRAM:**



**Hazard Statement(s)**

H318: Causes serious eye damage

H320: Causes eye irritation

**Precautionary Statement(s):**

**Prevention**

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P264 - Wash hands thoroughly after handling

**Response**

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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

**Storage** Not Applicable

**Disposal** Not Applicable



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**Substance/mixture:** Mixture  
**Other means of Identification:** Not available.

**Product code:** Clearview Crystal Clarifier

While some substances are claimed as trade secret in accordance with the provision of OSHA 29 CFR 1910.1200(i), all known hazards are clearly communicated within this document.

### Description of necessary first aid measures

**Eye Contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10minutes. If irritation persists, get medical attention.

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin Contact:** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion:** Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. the esophagus and dilute stomach contents by slowly giving one (1) to two (2) glasses of water or milk. Avoid giving alcohol or alcohol related products. In cases where the individual is semi-comatose, comatose or convulsing, DO NOT GIVE FLUIDS BY MOUTH. In case of intentional ingestion of the product seek medical assistance immediately; take individual to nearest medical facility.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Inhalation :** No known significant effects or critical hazards.  
**Ingestion :** No known significant effects or critical hazards.  
**Skin contact :** No known significant effects or critical hazards.  
**Eye contact :** Causes eye irritation.



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### Over-exposure signs/symptoms

**Eye contact :** Adverse symptoms may include the following:

irritation

watering

redness

**Inhalation:** No specific data.

**Skin contact:** No specific data

**Ingestion:** No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician:** In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments:** No specific treatment.

**Protection of first-aiders :** No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

**See toxicological information (Section 11)**

### Extinguishing media

**Suitable extinguishing media:** Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media :** None known.

**Specific hazards arising from the chemical** In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products** Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
halogenated compounds

**Special protective actions for fire-fighters** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Personal precautions, protective equipment and emergency procedures

**For non-emergency:** No action shall be taken involving any personal risk or without suitable training.

**Personnel** Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.



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**For emergency responders:** If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

**Environmental precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Precautions for safe handling

**Protective measures:** Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general Occupational hygiene:** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.



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**Control parameters**

**Occupational exposure limits**

None

**Appropriate engineering controls:**

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental exposure controls:**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures**

**Hygiene measures:**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Skin protection**

**Hand protection:**

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of gloves cannot be accurately estimated.

**Body protection:**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection:**

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection:**

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Physical state:**

Liquid

**Color:**

Amber

**Odor:**

Slight

**Odor Threshold:**

Not available

**pH**

4 to 8

**Vapor pressure:**

Not available

**Vapor density:**

Not available

**Relative density:**

Not available

**Dispersibility properties:**

Not available



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<b>Melting point:</b>	Not available	<b>Solubility:</b>	Easily soluble in the following materials: cold water / hot water
<b>Boiling point:</b>	Not available	<b>Partition coefficient:</b>	Not available
<b>Flash point:</b>	Closed cup: >100°C (>212°F)	<b>n-octanol/water</b>	
<b>Evaporation rate:</b>	Not available	<b>Auto-ignition temperature:</b>	>200°C (>392°F)
<b>Flammability (solid, gas)</b>	Not available	<b>Decomposition temperature:</b>	Not available
<b>Lower and upper explosive (flammable) limits</b>	Not available	<b>Viscosity:</b>	Not available
		<b>VOC:</b>	Not available

**Reactivity :** No specific test data related to reactivity available for this product or its ingredients.  
**Chemical stability:** The product is stable.  
**Possibility of hazardous reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.  
**Conditions to avoid:** No specific data.  
**Incompatible materials:** No specific data.  
**Hazardous decomposition Products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Information on toxicological effects

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Clearview Crystal Clarifier	LD50 Oral	Rat	>2000 mg/kg	-

**Conclusion/Summary:** This product is not expected to be toxic by inhalation.

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Clearview Crystal Clarifier	Eyes- Mild irritant	Mammal- species unspecified	-	-	-
	Skin- Mild irritant	Mammal- species unspecified	-	-	-
	Respiratory- Mild irritant	Mammal- species unspecified	-	-	-

### Conclusion/Summary

**Skin:** This product has been tested for cutaneous irritation on New Zealand White male rabbits according to OECD guideline 404. No effects (erythema or edema) were observed after 24 hours. This product is not irritating to skin. May cause skin irritation with susceptible persons.

**Eyes:** Testing conducted on rabbits showed minor transient irritation which cleared within days.

**Respiratory:** Slightly hazardous in case of inhalation. Effects will depend on concentration and length of time of exposure.

**Sensitization** Not available

### Conclusion/Summary

**Skin:** This product is not expected to be sensitizing.

**Respiratory:** This product is not expected to be sensitizing.



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**Mutagenicity** Not available.  
**Conclusion/Summary:** Not mutagenic in Ames test. Not mutagenic in micronucleus test on mice.

**Carcinogenicity** This product has not been tested unless noted in summary results.

**Reproductive toxicity** Not available

**Teratogenicity** Not available

**Conclusion/Summary:** Not teratogenicity. NOEL = 175 mg/kg

**Specific target organ toxicity**

Single exposure - Not available

Repeated exposure- Not available

**Aspiration hazard** Not available

**Information on the likely routes of exposure:** Routes of entry anticipated: Dermal, Inhalation.  
Routes of entry not anticipated: Oral.

**Potential acute health effects**

**Eye contact:** Causes eye irritation

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact :** Adverse symptoms may include the following:  
irritation  
watering  
redness

**Inhalation:** No specific data.

**Skin contact:** No specific data

**Ingestion:** No specific data.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Short term exposure**

**Potential immediate effects:** Not available

**Potential delayed effects:** Not available

**Long term exposure**

**Potential immediate effects:** Not available

**Potential delayed effects:** Not available

**Potential chronic health effects** Not available

**Conclusion/Summary :** Chronic Toxicity:NOEL / Oral / rat 90-day =5000 mg/kg  
Two year feeding study on rats and dogs did not reveal any adverse health effects.  
Not mutagenetic in AMES Test.  
Not mutgenetic in micronucleus test on mice.  
Not teratogenic, NOEL = 175 mg/kg.

**General:** No known significant effects or critical hazards

**Carcinogenicity:** No known significant effects or critical hazards

**Mutagenicity:** No known significant effects or critical hazards



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**Teratogenicity:** No known significant effects or critical hazards  
**Developmental effects:** No known significant effects or critical hazards  
**Fertility effects:** No known significant effects or critical hazards

**Numerical measures of toxicity**  
**Acute toxicity estimates** Not available

### Toxicity

Product/ingredient name	Result	Species	Exposure
Clearview Crystal Clarifier	Acute EC50 >10 mg/l	Daphnia	48 hours
	Acute LC50 >10 mg/l	Fish	96 hours

### **Disposal methods:**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

	DOT Classification	IMDG	IATA
<b>UN number</b>	Not regulated	Not regulated	Not regulated
<b>UN proper shipping name</b>	-	-	-
<b>Transport hazard class(es)</b>	-	-	-
<b>Packing group</b>	-	-	-
<b>Environmental hazards</b>	No	No	No
<b>Additional information</b>	-	-	The environmentally hazardous substance mark may appear if required by other transportation regulations.

**Special precautions for user:** **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available





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Potential impurities present in trace quantities are included in the regulatory listings of this section.

**U.S. Federal regulations :** United States inventory (TSCA 8b): All components are listed or exempted.

**SARA 302/304**

**Composition/information on ingredients**

No products were found.

**SARA 304 RQ :** Not applicable.

**SARA 311/312**

**Classification :** Immediate (acute) health hazard

**Composition/information on ingredients**

No products were found.

**CERCLA:** CERCLA: Hazardous substances.: No products were found.

**FDA:** This product is allowed under the following FDA (21 CFR) sections :176.170 Limitations:  
1) As a pigment dispersant and/or retention aid prior to the sheet-forming operation in the manufacture of paper and paperboard, and used at a level not to exceed 10 pounds of active polymer per ton of finished paper and paperboard. 2) As a pigment dispersant in coatings at a level not to exceed 3.5 pounds of active polymer per ton of finished paper and paperboard. 3) For use only as a flocculant employed prior to the sheet forming operation in the manufacture of paper and paperboard, and used at a level not to exceed 10 mg/L (10 parts per million) of influent water

**FIFRA** This product is not a registered pesticide.

**HMIS/NPCA Rating ...** Health 1 Flammability 0 Reactivity 0

**NFPA Ratings .....**Health 1 Flammability 0 Reactivity 0

**DATE OF PREPARATION**

**6-11-2015**

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