SAFETY DATA SHEET

M43948 - ANSI - EN

Oxy Vinyls, LP
A subsidiary of Occidental Petroleum Corporation

OXY ANTI-FOULING AGENT

SDS No.: M43948 **SDS Revision Date:** 05-Aug-2015

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Identification:	Occidental Chemical Corporation 5005 LBJ Freeway P.O. Box 809050 Dallas, TX 75380-9050 1-800-752-5151
24 Hour Emergency Telephone Number:	1-800-733-3665 or 1-972-404-3228 (USA); CHEMTREC (within USA and Canada): 1-800-424-9300; CHEMTREC (outside USA and Canada): +1 703-527-3887; CHEMTREC Contract No: CCN16186
To Request an SDS:	MSDS@oxy.com or 1-972-404-3245
Customer Service:	1-800-752-5151 or 1-972-404-3700
Product Identifier:	**OXY ANTI-FOULING AGENT**
Product Use:	Anti-fouling agent
Uses Advised Against:	None identified.

SECTION 2. HAZARDS IDENTIFICATION

OSHA REGULATORY STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

OXY ANTI-FOULING AGENT

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EMERGENCY OVERVIEW:

Color: Off-white
Physical State: Solid
Appearance: Cream, Powder
Odor: Odorless

Signal Word: **WARNING**

MAJOR HEALTH HAZARDS: CAUSES SERIOUS EYE IRRITATION. CAUSES SKIN IRRITATION.

AQUATIC TOXICITY: HARMFUL TO AQUATIC LIFE.

PRECAUTIONARY STATEMENTS: Wash thoroughly after handling.

ADDITIONAL HAZARD INFORMATION: Handle in accordance with good industrial hygiene and safety practice. Good hygiene practices include but are not limited to: wearing suitable gloves and/or eye protection; washing hands and affected skin immediately after handling, before breaks, and at the end of the workday; regularly cleaning work area and clothing; etc.

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GHS CLASSIFICATION:

GHS: CONTACT HAZARD - SKIN:	Category 2 - Causes skin irritation.
GHS: CONTACT HAZARD - EYE:	Category 2A - Causes serious eye irritation
GHS: ACUTE TOXICITY - INHALATION:	No data available. Not classified.
GHS: ACUTE TOXICITY - ORAL:	No data available. Not classified.
GHS: ACUTE TOXICITY - DERMAL:	No data available. Not classified.
GHS: CARCINOGENICITY:	Not classified as a carcinogen per GHS criteria. This product is not classified as a carcinogen by NTP, IARC, or OSHA.
GHS: HAZARDOUS TO AQUATIC ENVIRONMENT - ACUTE HAZARD:	Category 3 - Harmful to aquatic life

UNKNOWN ACUTE TOXICITY: 40% of the mixture consists of ingredient(s) of unknown acute toxicity.

GHS SYMBOL: Exclamation mark

GHS SIGNAL WORD: **WARNING**

GHS HAZARD STATEMENTS:

GHS - Health Hazard Statement(s)
Causes skin irritation
Causes serious eye irritation

GHS - Environmental Hazard Statement(s)
Harmful to aquatic life

GHS - Precautionary Statement(s) - Prevention
Wear eye and face protection
Wear protective gloves
Wash thoroughly after handling

GHS - Precautionary Statement(s) - Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN: Wash with plenty of water
Take off contaminated clothing and wash it before reuse
If skin irritation occurs: Get medical advice/attention
Specific treatment (see Section 4 of the safety data sheet and/or the First Aid information on the product label)

GHS - Precautionary Statement(s) - Storage
There are no Precautionary-Storage phrases assigned

GHS - Precautionary Statement(s) - Disposal
Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations.

Hazards Not Otherwise Classified (HNOC)
None identified

See Section 11: TOXICOLOGICAL INFORMATION

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Percent [%]	CAS Number
Trade Secret	57 - 64	Not Assigned
Trade Secret	30 - 40	Not Assigned

Notes: *U. S. Patent No: 4.855.424.*

SECTION 4. FIRST AID MEASURES

INHALATION: If inhalation of this material occurs and adverse effects result, move person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

SKIN CONTACT: If on skin, wash with plenty of water. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. SPECIFIC TREATMENT: Wash with lots of water.

EYE CONTACT: If in eyes, immediately rinse eyes cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

INGESTION: No effect expected. If swallowed, rinse mouth. Contact a poison center or doctor/physician if you feel unwell. If large amounts are ingested, get medical advice/attention.

Most Important Symptoms/Effects (Acute and Delayed) :.

Acute Symptoms/Effects: Listed below.
Inhalation (Breathing): Inhaling dust may cause irritation to upper respiratory tract (nose and throat).
Skin: Skin Irritation. Skin exposure may cause irritation, redness, itching, swelling.
Eye: Eye Irritation: Exposure to eyes may cause severe irritation and redness to the eye lids, conjunctiva.
Ingestion (Swallowing): Gastrointestinal System Effects: Exposure by ingestion may cause irritation, nausea, and vomiting.

Delayed Symptoms/Effects:
- Repeated and prolonged skin contact may cause a dermatitis

Interaction with Other Chemicals Which Enhance Toxicity: None known.

Medical Conditions Aggravated by Exposure: May aggravate preexisting conditions, such as: eye disorders that decrease tear production or have reduced integrity of the eye; skin disorders that compromise the integrity of the skin.

Protection of First-Aiders: At minimum, treating personnel should utilize PPE sufficient for prevention of bloodborne pathogen transmission. If potential for exposure exists refer to Section 8 for specific personal protective equipment.

SECTION 5. FIRE-FIGHTING MEASURES

Fire Hazard: Slight fire hazard. Although unlikely, dust/air mixtures may pose a limited risk of explosion under certain conditions.

Explosive properties: Dust (powder) may form explosive mixture in air.

Extinguishing Media: Use carbon dioxide, regular dry chemical, foam or water.

Fire Fighting: Keep unnecessary people away, isolate hazard area and deny entry. Move containers from the fire area if it is possible to do so without risk to personnel. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Wear NIOSH approved positive-pressure self-contained breathing apparatus operated in pressure demand mode.

Hazardous Combustion Products:	Ammonia, Oxides of carbon (Carbon monoxide, Carbon dioxide), Oxides of nitrogen, Oxides of sulfur
Sensitivity to Mechanical Impact:	Not sensitive.
Sensitivity to Static Discharge:	Electrostatic charges may build up during handling. Ground equipment.
Lower Flammability Level (air):	No data available
Upper Flammability Level (air):	No data available
Flash point:	No data available
Auto-ignition Temperature:	No data available

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:
Eliminate all sources of ignition and ground equipment. Avoid contact with skin and eyes. Avoid breathing dust. Minimize generation of dust. Ensure adequate ventilation, especially in confined areas. Wash thoroughly after handling. Wear appropriate personal protective equipment recommended in Section 8, Exposure Controls / Personal Protection, of the SDS.

Methods and Materials for Containment and Cleaning Up:
Eliminate all sources of ignition. Stop leak if possible without personal risk. Carefully shovel, scoop or sweep up into waste containers for reclamation or disposal. Use methods to minimize generation of dust.

Environmental Precautions:
This material is harmful to aquatic life. Keep out of water supplies and sewers. Releases should be reported, if required, to appropriate regulatory agencies.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling:
Avoid contact with skin and eyes. Avoid breathing dust. Minimize generation of dust. Wash thoroughly after handling. Wear personal protective equipment as described in Exposure Controls/Personal Protection (Section 8) of the SDS.

Safe Storage Conditions:
Store and handle in accordance with all current regulations and standards. Store in a cool, dry, well ventilated area. Keep containers closed when not in use. Store in properly labeled containers. Keep separated from incompatible substances (see below or Section 10 of the Safety Data Sheet).

Incompatibilities/ Materials to Avoid:
Amines, Acids and bases, Glass

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Regulatory Exposure Limit(s): Listed below for the product components that have regulatory occupational exposure limits (OEL's).

Component	OSHA Final PEL TWA	OSHA Final PEL STEL	OSHA Final PELCeiling
Particles Not Otherwise Regulated (PNOR) 00-00-001	15 mg/m³ (Total) 5 mg/m³ (Respirable)	-----	-----

OEL: Occupational Exposure Limit; OSHA: United States Occupational Safety and Health Administration; PEL: Permissible Exposure Limit; TWA: Time Weighted Average; STEL: Short Term Exposure Limit

NON-REGULATORY EXPOSURE LIMIT(S): Listed below for the product components that have advisory (non-regulatory) occupational exposure limits (OEL's) established.

Component	CAS Number	ACGIH TWA	ACGIH STEL	ACGIH Ceiling	OSHA TWA (Vacated)	OSHA STEL (Vacated)	OSHA Ceiling (Vacated)
Particulates Not Otherwise Specified (PNOS)	Not Assigned	10 mg/m³ (Inhalable) 3 mg/m³ (Respirable)	-----	-----	-----	-----	-----

- *The Non-Regulatory United States Occupational Safety and Health Administration (OSHA) limits, if shown, are the Vacated 1989 PEL's (vacated by 58 FR 35338, June 30, 1993).*

- The American Conference of Governmental Industrial Hygienists (ACGIH) is a voluntary organization of professional industrial hygiene personnel in government or educational institutions in the United States. The ACGIH develops and publishes recommended occupational exposure limits each year called Threshold Limit Values (TLVs) for hundreds of chemicals, physical agents, and biological exposure indices.

Additional Advice: Use good personal hygiene. Do not consume or store food in the work area. Wash hands and affected skin immediately after handling, before smoking or eating, before breaks, and at the end of the workday.

ENGINEERING CONTROLS: Provide sufficient general/local exhaust ventilation in pattern/volume to control inhalation exposures below applicable exposure limits and to keep area dust levels below explosive dust concentrations. Ensure compliance with applicable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:

Eye Protection: Wear safety glasses with side-shields. Wear chemical safety goggles and/or a face-shield to protect against skin and eye contact when appropriate. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin and Body Protection: Wear protective clothing to minimize skin contact such as standard industrial work clothes or coveralls, safety footwear. Contaminated clothing should be removed and laundered before reuse.

Hand Protection: Wear appropriate chemical resistant gloves. Consult a glove supplier for assistance in selecting an appropriate chemical resistant glove.

Protective Material Types: Butyl rubber, Natural rubber, Leather, Neoprene, Nitrile

Respiratory Protection: A NIOSH approved respirator with N95 (dust, fume, mist)filter cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. The added protection of a full face-piece respirator is required when visible dusty conditions are encountered and eye irritation may occur. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Appearance:	Cream, Powder
Color:	Off-white
Odor:	Odorless
Odor Threshold [ppm]:	No data available.
Decomposition Temperature:	No data available
Boiling Point/Range:	Not applicable to solids
Freezing Point/Range:	Not applicable to solids.
Melting Point/Range:	No data available
Vapor Pressure:	No data available
Vapor Density (air=1):	No data available
Relative Density/Specific Gravity (water=1):	>1 (H_2O = 1)
Density:	No data available
Bulk Density:	Not applicable
Water Solubility:	Insoluble in water
pH:	Not applicable
Evaporation Rate (ether=1):	Not applicable
Partition Coefficient (n-octanol/water):	No data available
Flash point:	No data available
Flammability (solid, gas):	No data available
Lower Flammability Level (air):	No data available
Upper Flammability Level (air):	No data available
Auto-ignition Temperature:	No data available
Viscosity:	Not applicable
Hygroscopic:	Yes

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not reactive at normal temperature and pressure.

Chemical Stability: Stable at normal temperature and pressure.

Possibility of Hazardous Reactions:
No data available.

Conditions to Avoid:
(e.g., static discharge, shock, or vibration) -. None known.

Incompatibilities/ Materials to Avoid:
Amines. Acids and bases. Glass.

Hazardous Decomposition Products: Ammonia, Oxides of carbon (Carbon monoxide, Carbon dioxide), Oxides of nitrogen, Oxides of sulfur

Hazardous Polymerization: Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

TOXICITY DATA:

PRODUCT TOXICITY DATA: OXY ANTI-FOULING AGENT

LD50 Oral:	LD50 Dermal:	LC50 Inhalation:
No data available	No data available	No data available

COMPONENT TOXICITY DATA:
Note: The component toxicity data is populated by the LOLI database and may differ from the product toxicity data given.

Component	LD50 Oral:	LD50 Dermal:	LC50 Inhalation:
Trade Secret	------	-----	-----
Trade Secret	------	-----	-----

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POTENTIAL HEALTH EFFECTS:

Eye contact: Eye exposure may cause severe eye irritation and redness to the eye lids, conjunctiva, and cornea.

Skin contact: May cause skin irritation with redness, itching, swelling of the skin.

Inhalation: Dust may cause irritation to upper respiratory tract (nose and throat).

Ingestion: Ingestion may cause irritation, nausea, and vomiting.

Chronic Effects: Repeated or prolonged skin contact may result in dermatitis.

SIGNS AND SYMPTOMS OF EXPOSURE:

Inhalation (Breathing): Inhaling dust may cause irritation to upper respiratory tract (nose and throat).
Skin: Skin Irritation. Skin exposure may cause irritation, redness, itching, swelling.
Eye: Eye Irritation: Exposure to eyes may cause severe irritation and redness to the eye lids, conjunctiva.
Ingestion (Swallowing): Gastrointestinal System Effects: Exposure by ingestion may cause irritation, nausea, and vomiting.

Interaction with Other Chemicals Which Enhance Toxicity: None known.

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GHS HEALTH HAZARDS:

GHS: ACUTE TOXICITY - ORAL: No data available. Not classified.

GHS: ACUTE TOXICITY - DERMAL: No data available. Not classified.

GHS: ACUTE TOXICITY - INHALATION: No data available. Not classified.

GHS: CONTACT HAZARD - EYE: Category 2A - Causes serious eye irritation

GHS: CONTACT HAZARD - SKIN: Category 2 - Causes skin irritation

GHS: CARCINOGENICITY:
Not classified as a carcinogen per GHS criteria. This product is not classified as a carcinogen by NTP, IARC, or OSHA.

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA:

FATE AND TRANSPORT:

BIODEGRADATION: This material may biodegrade in soil and water

PERSISTENCE: This material is believed not to persist in the environment

BIOCONCENTRATION: This material contains constituents that may bioaccumulate.

ADDITIONAL ECOLOGICAL INFORMATION: This material is harmful to aquatic life.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste from material:
Reuse or reprocess, if possible. Dispose in accordance with all applicable regulations.

Container Management:
Dispose of container in accordance with applicable local, regional, national, and/or international regulations. Container rinsate must be disposed of in compliance with applicable regulations.

SECTION 14. TRANSPORT INFORMATION

IMPORTANT: This material is not regulated under DOT
National Motor Freight Classification (freight class): Oxy Anti Fouling Agent - YCD8011 - 85

LAND TRANSPORT

U.S. DOT 49 CFR 172.101:

Status: Not regulated.

CANADIAN TRANSPORTATION OF DANGEROUS GOODS:

Status: Not regulated.

MARITIME TRANSPORT (IMO / IMDG) Not regulated

Status - IMO / IMDG: Not Regulated

AIR TRANSPORT (ICAO / IATA) :

Status - ICAO/IATA: Not Regulated

SECTION 15. REGULATORY INFORMATION

U.S. REGULATIONS

OSHA REGULATORY STATUS:
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):
Not regulated.

SARA EHS Chemical (40 CFR 355.30)
Not regulated

EPCRA SECTIONS 311/312 HAZARD CATEGORIES (40 CFR 370.10):
Acute Health Hazard

EPCRA SECTION 313 (40 CFR 372.65):
To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

OSHA PROCESS SAFETY (PSM) (29 CFR 1910.119):
Not regulated

NATIONAL INVENTORY STATUS

U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA): All components are listed or exempt.

TSCA 12(b): This product is not subject to export notification.

Canadian Chemical Inventory: Some of the components of this product are not identified on the DSL or NDSL.

STATE REGULATIONS

California Proposition 65:
This product and its ingredients are not listed, but it may contain impurities/trace elements known to the State of California to cause cancer or reproductive toxicity as listed under Proposition 65 State Drinking Water and Toxic Enforcement Act. For additional information, contact OxyChem Technical Services at 1-800-733-1165.

CANADIAN REGULATIONS

• This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations

WHMIS - Classifications of Substances:
• D2B - Poisonous and Infectious Material; Materials causing other toxic effects - Toxic material

SECTION 16. OTHER INFORMATION

Prepared by: OxyChem Corporate HESS - Product Stewardship

Rev. Date: 05-Aug-2015

HMIS: (SCALE 0-4) (Rated using National Paint & Coatings Association HMIS: Rating Instructions, 2nd Edition)

Health Rating: 2 **Flammability Rating:** 1 **Reactivity Rating:** 0

NFPA 704 - Hazard Identification Ratings (SCALE 0-4)

Health Rating: 2 **Flammability:** 1 **Reactivity Rating:** 0

Reason for Revision:
• Regulatory Information Changes: SEE SECTION 15

IMPORTANT:
The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY OR GUARANTY OF ANY OTHER KIND, EXPRESSED OR IMPLIED, IS MADE REGARDING PERFORMANCE, SAFETY, SUITABILITY, STABILITY OR OTHERWISE. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, storage, disposal and other factors that may involve other or additional legal, environmental, safety or performance considerations, and OxyChem assumes no liability whatsoever for the use of or reliance upon this information. While our technical personnel will be happy to respond to questions, safe handling and use of the product remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patents or to violate any Federal, State, local or foreign laws

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Safety Data Sheet available to your employees

End of Safety Data Sheet