

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

1.1. Product identifier

Product name : Mariner SWDG

Product form : Preparation

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

Use of the substance/mixture : Soil Surfactant on pelletized domomite carrier

1.3. Details of the supplier of the safety data sheet

Ocean Organics Corp.
P.O. Box 1448
Waldoboro, ME 04572
888-312-0106

1.4. Emergency telephone number

1-207-542-3808

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Serious eye damage: Category 1

2.2. Label elements

GHS-US labelling

Hazard pictogram:



Signal Word: Danger

Hazard statements: H318 Causes serious eye damage. May cause cancer. May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

Prevention:

Avoid Exposure

P280 Wear eye protection/ face protection.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Immediately call a POISON CENTER/doctor.

2.3. Other hazards

None known

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Substance / Mixture: Preparation

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Name	Product identifier	%
Dolomitic carrier		85 – 95%
Tridecyl Alcohol 8EO	CAS 24938-91-8	>= .1 - < .5

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice:	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled:	If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of eye contact:	Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed:	Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

4.2. Most important symptoms and effects, both acute and delayed: Causes serious eye damage

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Liquid product is not a fire hazard and will not burn. Water spray. Carbon dioxide. Dry powder. Foam. Sand.
Unsuitable extinguishing media	: None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Product is not combustible.
Explosion hazard	: Product is not explosive.
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.

5.3. Advice for firefighters

Firefighting instructions	: Use cold water spray to cool fire-exposed containers to minimize risk of rupture. Do not dispose of fire-fighting water in the environment. Dispose of in accordance with relevant local regulations. Prevent human exposure to fire, fumes, smoke and products of combustion.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Ventilate area. Remove ignition sources. Evacuate area.
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6.1.1. For non-emergency personnel

Protective equipment	: Wear Protective equipment as described in Section 8.
Emergency procedures	: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	: For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Product is used as a soil surfactant and as such, may enter the environment. Product is not expected to pose a hazard to the environment, but large quantity releases should be avoided. Prevent entry into waterways.

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See Sections 8 and 13.

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silica) (CAS Mixture)

[illegible]

Components	Type	Value	Form
1	int	1	1
2	int	2	2
3	int	3	3
4	int	4	4
5	int	5	5
6	int	6	6
7	int	7	7
8	int	8	8
9	int	9	9
10	int	10	10
11	int	11	11
12	int	12	12
13	int	13	13
14	int	14	14
15	int	15	15
16	int	16	16
17	int	17	17
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19	int	19	19
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26	int	26	26
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28	int	28	28
29	int	29	29
30	int	30	30
31	int	31	31
32	int	32	32
33	int	33	33
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36	int	36	36
37	int	37	37
38	int	38	38
39	int	39	39
40	int	40	40
41	int	41	41
42	int	42	42
43	int	43	43
44	int	44	44
45	int	45	45
46	int	46	46
47	int	47	47
48	int	48	48
49	int	49	49
50	int	50	50
51	int	51	51
52	int	52	52
53	int	53	53
54	int	54	54
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57	int	57	57
58	int	58	58
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89	int	89	89
90	int	90	90
91	int	91	91
92	int	92	92
93	int	93	93
94	int	94	94
95	int	95	95
96	int	96	96
97	int	97	97
98	int	98	98
99	int	99	99
100	int	100	100

Crystalline Silica (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
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Calcium Carbonate (CAS 1317-65-3)	TWA	5 mg/m3 Respirable fraction.
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10 mg/m³ Total dust.

Exposure Guidelines: OSHA PELs, MSHA PELs, and ACGIH TLVs are 8-hr TWA values. NIOSH RELs are for TWA exposures up to 10-hr/day and 40-hr/wk. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled. Terms including “Particulates Not Otherwise Classified,” “Particulates Not Otherwise Regulated,” “Particulates Not Otherwise Specified,” and “inert or Nuisance Dust” are often used interchangeably; however, the user should review each agency’s terminology for differences in meanings.

☐ **Appropriate engineering controls:** Use ventilation and dust collection to control exposure to below applicable limits.

Recommendations for personal protective measures:

Respirable dust and quartz levels should be monitored regularly to determine worker exposure levels.

Exposure levels in excess of allowable exposure limits should be reduced by all feasible engineering controls, including (but not limited to) wet suppression, ventilation, process enclosure, and enclosed employee workstations.

- Any special requirements for PPE:

Eye protection: Safety glasses with side shields should be worn as minimum protection. Dust goggles should be worn when excessively (visibly) dusty conditions are present or anticipated.

Skin protection: Use gloves to provide hand protection from drying dust and abrasion. In dusty conditions wear long sleeve shirt. Wash work clothes after each use.

Respiratory Protection: All respirators must be NIOSH-approved for the exposure levels present. (See NIOSH Respirator Selection Guide). The need for respiratory protection should be evaluated by a qualified safety and health professional. Activities that generate dust require the use of an appropriate dust respirator where dust levels exceed or are likely to exceed allowable exposure limits. For respirable silica levels that exceed or are likely to exceed an 8 hr Time Weighted Average (TWA) of 0.5 mg/m³, a high efficiency particulate filter respirator must be worn at a minimum; however, if respirable silica levels exceed or are likely to exceed an 8 hr TWA of 5.0 mg/m³ a positive pressure, full face respirator or equivalent is required. Respirator use must comply with applicable MSHA (42 CFR 84) or OSHA (29 CFR 1910.134) standards, which include provisions for a user training program, respirator inspection, repair and cleaning, respirator fit testing, medical surveillance and other requirements.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance (physical state, color, etc.): Tan or brown para-spherical solid particles ranging in size from approximately 1/8th inch diameter and smaller.

- Odor – Slight Odor

— Vapor pressure: Not Applicable

— Odor threshold: Not Applicable

— Vapor density: Not Applicable

— pH: Ranges between 6 and 9 in saturated water solution

— Relative density: Ranges between 30 and 65 pounds per cubic foot

— Melting point/freezing point: Not Applicable

☐ **Solubility:** When exposed to liquid water, granules disintegrate into very fine dolomite stone dust and wood flour dust particles.

Initial boiling point and boiling range: Not Applicable

Flash point: None

Evaporation rate: None

— Flammability (solid, gas): Not Applicable

Upper/lower flammability or explosive limits: Not Determined for dust from granules. An airborne concentration of 40 grams of dust per cubic meter is often used as the LEL for the wood dust component.

For calcium lignosulfonate, the LEL is 0.2 oz / ft³

and the UEL is 3.5 oz. / ft³

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□ **Partition coefficient:** n-octanol/water: Not Applicable for dolomite and wood flour; 100% water for Calcium Lignosulfonate.

□ **Auto-ignition temperature:** Not determined for dust from granules.

□ **Decomposition temperature:** Greater than 350°F for organic components. When heated at 1100 - 1700°F, dolomitic limestone decomposes into dolomitic quicklime releasing carbon dioxide gas.

□ **Viscosity:** Not Applicable.

Sect

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Carbon Oxides (monoxide (CO), carbon dioxide (CO₂), etc.)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation Repeated inhalation of respirable crystalline silica (quartz) may cause silicosis, a fibrosis (scarring) of the lungs. Silicosis is irreversible and may be fatal. Silicosis increases the risk of contracting pulmonary tuberculosis. Some studies suggest that repeated inhalation of respirable crystalline silica may cause other adverse health effects including lung and kidney cancer.

Skin contact May cause irritation through mechanical abrasion and drying.

Eye contact May cause irritation through mechanical abrasion.

Ingestion Not likely, due to the form of the product.

Symptoms related to the physical, chemical, and toxicological characteristics: Dust from granules: Discomfort in the chest. Shortness of breath. Coughing.

Information on toxicological effects:

Acute toxicity: Not expected to be acutely toxic.

Skin corrosion/irritation: This product is not expected to be a skin hazard.

Serious eye damage/eye irritation: Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization:

Respiratory sensitization: No respiratory sensitizing effects known.

Skin sensitization: Not known to be a dermal irritant or sensitizer.

Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: Respirable crystalline silica has been classified by IARC and NTP as a known human carcinogen, and classified by ACGIH as a suspected human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Crystalline Silica(Quartz) (CAS 14808-60-7) 1 Carcinogenic to humans.

Respirable Tridymite and Cristobalite 1 Carcinogenic to humans.

(other forms of Crystalline) (CAS Mixture)

NTP Report on Carcinogens: Crystalline Silica(Quartz) (CAS 14808-60-7) Known To Be Human Carcinogen.

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Reproductive toxicity: Not expected to be a reproductive hazard.
Specific target organ toxicity – single exposure: Not classified.
Specific target organ toxicity – repeated exposure: Respirable crystalline silica: May cause damage to organs (lung) through repeated exposure prolonged or repeated exposure.
Aspiration hazard: Due to the physical form of the product it is not an aspiration hazard.
Chronic effects: Prolonged inhalation of respirable crystalline silica may be harmful. May cause damage to organs (lungs) through prolonged or repeated exposure. There are reports in the literature suggesting that excessive crystalline silica exposure may be associated with autoimmune disorders and other adverse health effects involving the kidney. In particular, the incidence of scleroderma (thickening of the skin caused by swelling and thickening of fibrous tissue) appears to be higher in silicotic individuals. To date, the evidence does not conclusively determine a causal relationship between silica exposure and these adverse health effect.

SECTION 12: Ecological information

Soil surfactants may be harmful to aquatic life with short term effects, depending on amount released.

12.1. Toxicity

Ecology - general : No information available.

12.2. Persistence and degradability

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Persistence and degradability	No data available.

12.3. Bioaccumulative potential

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Bioaccumulative potential	No information available.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The simplest method for disposal is to use the product as intended, as a soil surfactant applied to soils.

Waste treatment methods : Do not discharge to public wastewater systems without permit of pollution control authorities.
No discharge to surface waters is allowed without an NPDES permit.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

SECTION 14: Transport information

In accordance with DOT

Not hazardous for transport

Additional information

Other information : No supplementary information available.

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

US Federal Regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) – Not Regulated

RCRA Hazardous Waste Number: Not Listed (40 CFR 261.33)

RCRA Hazardous Waste Classification (40 CFR 261): Not Classified

CERCLA Hazardous Substance List (40 CFR 302.4) Not listed

CERCLA Reportable Quantity (RQ): not listed

SARA Hazard categories

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Acute Health – Yes
Chronic Health – Yes
Fire hazard – Yes
Pressure hazard – No
Reactivity hazard - No
SARA 313 (TRI Reporting) – Not Regulated
SARA Toxic Chemical (40 CFR 372.65): not listed
SARA 302 (Extremely Hazardous Substance): Not Listed

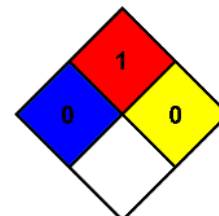
OSHA Specifically Regulated Substance (29 CFR 1910): not listed.
Clean Air Act (CAA) Section 112 – Hazardous Air Pollutants (HAP's) List – Not Regulated
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) – Not Regulated
Canadian Regulations. Dolomite products containing crystalline silica and calcium carbonate are classified D2A and are subject to WHMIS requirements.
Additional State or Province regulations may be applicable. For Example:
US. Massachusetts RTK - Substance List
Crystalline Silica(Quartz) (CAS 14808-60-7)
Respirable Tridymite and Cristobalite (other forms of crystalline silica) (CAS Mixture)
US. New Jersey Worker and Community Right-to-Know Act
Crystalline Silica(Quartz) (CAS 14808-60-7)
Respirable Tridymite and Cristobalite (other forms of crystalline silica) (CAS Mixture)
US. Pennsylvania Worker and Community Right-to-Know Law
Crystalline Silica(Quartz) (CAS 14808-60-7)
Respirable Tridymite and Cristobalite (other forms of crystalline silica) (CAS Mixture)
US. Rhode Island RTK
Not regulated.
US. California Proposition 65
WARNING: This product contains a chemical known to the State of California to cause cancer.
US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
Crystalline Silica(Quartz) (CAS 14808-60-7)

SECTION 16: Other information

Indication of changes : Revision 1.0: New SDS Created.
Revision date :
Other information :

NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 0
Flammability : 1
Physical : 0
Personal Protection :

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as Mariner SWDGing any specific property of the product