

OSHA HazCom 2012 Standard 29 CFR 1910.1200. Prepared to GHS Rev03.

Reviewed on 02/22/2021

### 1 Identification

- · Product identifier
  · Trade name: Orca
- · Product description: Naturally occurring beneficial soil microorganism.
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Plant Revolution, Inc.

412 Goetz Ave

Santa Ana, CA 92707

Ph: 714-545-5335 Fax: 714-545-5429

http://www.plant-success.com/

· Emergency telephone number: Josh Eagan 714-415-9290

### 2 Hazard(s) identification

- · Classification of the substance or mixture
- Product is in liquid form and only poses a respirable hazard when in dry state. See Below



May cause respiratory irritation.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

Attapulgite (Palygorskite) (fibrous dust)

· Hazard statements

May cause respiratory irritation.

· Precautionary statements

Wear respiratory protection.

Use only outdoors or in a well-ventilated area.

Use personal protective equipment as required.

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



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Do not breathe dust.

Avoid breathing dust.

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

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Call a POISON CENTER/doctor if you feel unwell.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- NFPA ratings (scale 0 4)



Health = 2 Fire = 0 Reactivity = 0

## 3 Composition/information on ingredients

- · Chemical characterization: Mixtures Mycorrhizae species of fungi
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components: N/A		
12174-11-7	Attapulgite (Palygorskite) (fibrous dust) 🕚	90-99%

## 4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.
- · After skin contact:

Wash with soap and water. Then apply hand lotion.

Exposure to skin may cause mild irritation and dry skin.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Give large amounts of water. If symptoms persist consult doctor.
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: Protective repiratory device.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Avoid consistant temperature above 120°F or it destroys the product.

Keep receptacle tightly sealed.

· Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- \* Components with limit values that require monitoring at the workplace:N/A
- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

- · Breathing equipment: Dust mask
- Protection of hands:

Exposure to skin may cause mild irritation and dry skin.

After each cleaning use treatment creams, for very dry skin greasy ointments.

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- · Material of gloves Not required under conditions of normal use.
- · Penetration time of glove material Not applicable.
- · Eye protection:

Non toxic but dust may irritate eyes. Flush eyes with clean water. Consult a physician if irritation persists.

### 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid

Color:
Odor:
Odor threshold:
Pale, Opaque, milky Earthy Musty
Not determined.
Not applicable.

· Change in condition

Melting point/Melting range:
Boiling point/Boiling range:
Flash point:

Flammability (solid, gaseous):

100 °C (212 °F)
100 °C (212 °F)
Not applicable.
Not determined.

· Ignition temperature:

**Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not self-igniting.

Danger of explosion:
 Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined.Upper: Not determined.Vapor pressure: Not applicable.

• **Density @ 20 °C (68 °F):** 2.2 g/cm³ (18.359 lbs/gal)

Relative density
 Vapor density
 Evaporation rate
 Not determined.
 Not applicable.
 Not applicable.

· Solubility in / Miscibility with

Water: Insoluble.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

**Dynamic:** Not applicable. **Kinematic:** Not applicable.

· Solvent content:

Organic solvents: 0.0 % Solids content: 1.0 %

· Other information No further relevant information available.

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## 10 Stability and reactivity

- · Reactivity No further relevant information available.
- Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

## \* 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: Irritant
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful Irritant

· Carcinogenic categories

### IARC (International Agency for Research on Cancer)

12174-11-7 Attapulgite (Palygorskite) (fibrous dust)

2B

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## \* 12 Ecological information

- · Toxicity
- · Aquatic toxicity: None known
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes: No further relevant information available
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

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## \*13 Disposal considerations

- · Waste treatment methods
- · Recommendation: Recycle or dipose with household trash.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

### \* 14 Transport information

· UN-Number

· DOT, ADR, ADN, IMDG, IATA Non-Regulated Material

· UN proper shipping name

· DOT, ADR, ADN, IMDG, IATA Non-Regulated Material

· Transport hazard class(es)

· DOT, ADR, ADN, IMDG, IATA

· Class Non-Regulated Material

· Packing group

· DOT, ADR, IMDG, IATA Non-Regulated Material

· Environmental hazards:

· Marine pollutant: No

· Special precautions for user Not applicable.

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· UN "Model Regulation":

### \* 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

- · Proposition 65
- · Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

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- · Carcinogenic categories
- · EPA (Environmental Protection Agency)

None of the ingredients is listed.

- · TLV (Threshold Limit Value established by ACGIH)
- · NIOSH-Ca (National Institute for Occupational Safety and Health)
- · GHS label elements

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Hazard pictograms



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Hazard statements

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Precautionary statements

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IF exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Call a POISON CENTER/doctor if you feel unwell.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### · National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

### · State Right to Know

12174-11-7 Attapulgite (Palygorskite) (fibrous dust)

90-99%

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Mycorrhizae species of fungi

≤ 2.5%

All ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has been carried out.

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Date of preparation / last revision 02/22/2021
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

Acute Tox. 4: Acute toxicity, Hazard Category 4

Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B

Carc. 1A: Carcinogenicity, Hazard Category 1A Carc. 2: Carcinogenicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2