

Safety Data Sheet

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

#### **Product identifier**

Product form Substance name CAS No

**Provect-ABR (Aerobic Bioremediation Reagent)** 

Formula

#### Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture: Reagent for enhancing aerobic biodegradation of organic contaminants

#### Details of the supplier of the safety data sheet

Provectus Environmental Products, Inc. 2871 West Forest Road, Suite 2, Freeport Illinois 61032 USA

#### **Emergency telephone number**

815 650 2230

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

#### **GHS-US classification**

Skin Irrit. 2 H315 Eye Irrit. 2B H320 STOT SE 3 H335

#### 2.2. **Label elements**

## **GHS-US** labelling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) H315 - Causes skin irritation H320 - Causes eye irritation

H335 - May cause respiratory irritation

P261 - Avoid breathing dust Precautionary statements (GHS-US)

P264 - Wash exposed skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area

P280 - Wear protective gloves, eye protection

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable

for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P312 - Call a POISON CENTER/doctor/physician if you feel unwell P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P501 - Dispose of contents/container to comply with local, state and federal regulations

#### Other hazards

Other hazards not contributing : None under normal conditions.



Safety Data Sheet

#### 2.4. Unknown acute toxicity (GHS-US)

No data available

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Substance type : Mono-constituent

Name	Product identifier	%	GHS-US classification
Monoammonium phosphate	CAS: 7722-76-1	10 to 60%	Not Classified
Calcium Carbonate	CAS: 471-34-1	0-10%	Skin Irrit. 2, H315 Eye Irrit. 2B. H320 STOT
Magnesium Oxide	CAS: 1309-48-4	0-10%	Not Classified
Food Grade Organic Carbons	Proprietary	20-50%	Not Classified

Full text of H-phrases: see section 16

#### 3.2. Mixture

Not applicable

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

(show the label where possible).

First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER/doctor/physician if you feel unwell.

First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation

occurs: Get medical advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : Causes skin irritation.
Symptoms/injuries after eye contact : Causes eye irritation.

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

Obtain medical assistance.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

## 5.2. Special hazards arising from the substance or mixture

No additional information available

## 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

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

#### 6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Gloves. Dust mask. Emergency procedures : Evacuate unnecessary personnel.



Safety Data Sheet

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from

other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing dust. Use eye protection. Use outdoors or in a well-ventilated area.

Hygiene measures : Wash exposed skin thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Keep dry

Incompatible products : Strong oxidizers. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Acid or base

## 7.3. Specific end use(s)

Not for drinking water use

## **SECTION 8: Exposure controls/personal protection**

### 3.1. Control parameters

## Calcium Carbonate (471-34-1)

USA OSHA OSHA PEL (TWA) (mg/m³) 5 mg/m³

## 8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity

of any potential exposure. Ensure adequate ventilation.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses. Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

#### **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : White to brown powder
Molecular mass : 100 g/mol, variable
Color : white to brown
Odor : None to slightly sweet.

Odor threshold : No data available pH : 5 to 6 (aqueous)
Relative evaporation rate (butylacetate=1) : No data available

Melting point : 520 °C

Freezing point : No data available
Boiling point : Not applicable
Flash point : Not applicable
Self ignition temperature : Not applicable
Decomposition temperature : <500°C



Safety Data Sheet

Flammability (solid, gas) : Combustible

Vapor pressure : No data available

Relative vapor density at 20 °C : No data available

Relative density : No data available

Density : 2.93 g/cm³

Solubility : Water: 0.00153 g/100ml

Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

#### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Reacts with acid or base.

#### 10.4. Conditions to avoid

Direct sunlight. Keep Dry prior to use. Extremely high or low temperatures. NOT FOR DRINKING WATER APPLICATION

## 10.5. Incompatible materials

Strong acids. Strong oxidizers.

## 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide .Phosphorus oxides; Ammonia

### **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Not classified

Calcium Carbonate ( \f)471-34-1	
LD50 oral rat	6450 mg/kg
Skin corrosion/irritation	: May cause skin irritation.
Serious eye damage/irritation	: Causes eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.



Safety Data Sheet

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact Causes skin irritation. Symptoms/injuries after eye contact Causes eye irritation.

Likely routes of exposure : Inhalation; Skin and eye contact

## **SECTION 12: Ecological information**

#### 12.1. **Toxicity**

No additional information available

#### Persistence and degradability

Ca	lcium	Car	bona	ite (4	71-3	4-1)

Not established. Persistence and degradability

#### **Bioaccumulative potential**

#### Calcium Carbonate (471-34-1)

Not established. Bioaccumulative potential

: No supplementary information available.

#### **Mobility in soil**

No additional information available

#### 12.5. Other adverse effects

May irritate eye : Not for drinking water

## **SECTION 13: Disposal considerations**

#### Waste treatment methods

: Dispose in a safe manner in accordance with local/national regulations. Waste disposal recommendations

Ecology - waste materials : Avoid release to the environment.

## **SECTION 14: Transport information**

In accordance with DOT

No dangerous good in sense of transport regulations

#### **Additional information**

**ADR** 

Transport document description

#### Transport by sea

No additional information available

Complies with International Inventories

#### Air transport

No additional information available

## **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

#### Calcium Carbonate (471-34-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

### **CANADA**

#### Calcium Carbonate (471-34-1)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects

#### **EU-Regulations**

No additional information available

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified



Safety Data Sheet

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

## 15.2.2. National regulations

#### Calcium Carbonate (471-34-1)

Not listed on the Canadian Ingredient Disclosure List

## 15.3. US State regulations

No additional information available

## **SECTION 16: Other information**

Other information : None.

Full text of H-phrases: see section 16:

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Eye Irrit. 2B	Serious eye damage/eye irritation, Category 2B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation
H320	Causes eye irritation
H335	May cause respiratory irritation

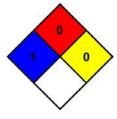
NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



#### **HMIS III Rating**

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard Physical : 0 Minimal Hazard

Personal Protection : E

SDS US (GHS HazCom 2012)

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