

Conforms to HazCom 2012/United States

# SAFETY DATA SHEET



# PAK 27 Algaecide

# Section 1. Identification

GHS product identifier: PAK 27 algaecide

Other means of identification: Not available.

EPA Registration No.: 68660-9-67690

Relevant identified uses of the

<u>substance or mixture</u> Algaecide

Supplier's details : SePRO Corporation

11550 North Meridian Street

Suite 600

Carmel, IN 46032 U.S.A. Tel: 317-580-8282 Toll free: 1-800-419-7779 Fax: 317-580-8290

Monday - Friday, 8am to 5pm E.S.T.

www.sepro.com

Emergency telephone number (with hours of

operation)

: INFOTRAC - 24-hour service 1-800-535-5053

The following recommendations for exposure controls and personal protection are intended for the manufacture, formulation and packaging of this product. For applications and/or use, consult the product label. The label directions supersede the text of this Safety Data Sheet for application and/or use.

# Section 2. Hazards identification

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

#### Classification of the substance or mixture

Acute toxicity, 4 Harmful if swallowed.

Serious eye damage 1 Causes serious eye damage.





### Label elements

## **Pictogram**



Signal Word DANGER

Hazards Harmful if swallowed. Causes serious eye damage.

**Precautionary Statements** 

<u>Prevention</u> Wash skin thoroughly after handling. Do not eat, drink or smoke when using this

product. Wear eye protection/face protection

Response IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

Rinse mouth.

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 or

doctor/physician.

Other hazards which do not result

in classification Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

# Section 3. Composition/information on ingredients

**Substance** Not applicable, this product is a mixture.

Mixture Chemical nature; Multi constituent substance; Stabilized product

### **Hazardous Ingredients and Impurities**

Chemical Name	Identification Number CAS-NO	<b>Concentration (%)</b> > = 85	
Sodium carbonate peroxyhydrate	15630-89-4		
Carbonic acid sodium salt	497-19-8	< = 13	
Sodium silicate SiO2/Na2O	1344-09-8	< = 1.5	
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The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

# Section 4. First aid measures

Description of first-aid measures

<u>In case of inhalation</u> Move to fresh air. If symptoms persist, call a physician.

In case of skin contact

Remove and wash contaminated clothing before re-use. Wash off with plenty of

water. If symptoms persist, call a physician.



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<u>In case of eye contact</u>

Call a physician or poison control center immediately. In case of eye contact, remove

contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of difficulty of opening the lids, administer an analgesic

eye wash (oxybuprocaine).

<u>In case of ingestion</u> If victim is conscious: If swallowed, rinse mouth with water (only if the person is

conscious). Do NOT induce vomiting.

If victim is unconscious: Artificial respiration and/or oxygen may be necessary.

Rinse mouth with water. Do NOT induce vomiting. If accidentally swallowed obtain

immediate medical attention. Oxygen or artificial respiration if needed.

Most important symptoms and effects, both acute and delayed

**Effects In case of inhalation** May cause nose, throat, and lung irritation.

**Effects In case of skin contact** Prolonged skin contact may cause skin irritation.

Effects In case of eye contact Symptoms: Redness; Lachrymation; Swelling of tissue

Effects: Severe eye irritation; Risk of serious damage to eyes.

Effects In case of ingestion Symptoms: Severe irritation; Nausea; Abdominal pain; Vomiting; Diarrhea

Indication of any immediate medical attention and special treatment

**needed** No data available

# Section 5. Fire-fighting measures

<u>Flash point</u> Not applicable

Autoignition temperature No data available

Flammability / Explosive limit No data available

<u>Suitable extinguishing media</u> Water; Water spray

<u>Unsuitable extinguishing media</u> None.

Special hazards arising from the substance or mixture

Specific hazards during fire fighting

Oxidizing

Oxygen released in thermal decomposition may support combustion

Contact with combustible material may cause fire. Contact with flammables may cause fire or explosions.

Risk of explosion if heated under confinement.

Hazardous combustion products: Oxygen



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Advice for firefighters

Special protective equipment for

fire-fighters

In the event of fire, wear self-contained breathing apparatus. Use personal protective

equipment. Cool containers/tanks with water spray.

<u>Further information</u> Keep product and empty container away from heat and sources of ignition.

# Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

**Advice for non-emergency** 

**personnel** Keep away from incompatible products

Advice for emergency responders Sweep up to prevent slipping hazard.

**Environmental precautions** Should not be released into the environment.

Limited quantity: Flush into sewer with plenty of water.

Large quantities: If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up:

Sweep up and shovel into suitable containers for disposal. Do not mix waste streams during collection. Avoid dust formation. Treat recovered material as described in the section "Disposal considerations". All receiving equipment should be clean, vented, dry, labeled and made of material that is compatible with the product. Never return

spills in original containers for re-use.

Reference to other sections No data available

# Section 7. Handling and storage

Precautions for safe handling Avoid dust formation. Ensure adequate ventilation. Keep away from heat and sources

of ignition. Use only clean and dry utensils. Never return unused material to storage

receptacle. Keep away from water. Keep away from incompatible products

**Hygiene measures**Use only in an area equipped with a safety shower. Eye wash bottle with pure water

Handle in accordance with good industrial hygiene and safety practice for diagnostics.

Conditions for safe storage, including any incompatibilities

Technical measures/
Storage conditions

Keep in a dry place. Keep in a cool, well-ventilated place. Keep only in the original container. Keep away from direct sunlight. Store in a receptacle equipped with a vent.

Keep away from heat. The container must be used exclusively for the product. Keep

in container fitted with safety valve or vent.

Avoid dust formation. Refer to protective measures listed in sections 7 and 8. In industrial installations, apply the rules for the prevention of major accidents (consult an expert). Keep away from heat/sparks/open flames/hot surfaces. No smoking. To

avoid thermal decomposition, do not overheat.

Keep away from: Incompatible products

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# Packaging material

Suitable material

Stainless steel Polyethylene Paper + PE coating.

Value Type

Specific end use(s) Contact your supplier for additional information

# Section 8. Exposure controls/personal protection

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

#### Control parameters

# Components with workplace occupational exposure limits

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Sodium carbonate peroxyhydrate	TWA	5 mg/m3	Solvay Acceptable Exposure Limit
Carbonic acid sodium salt (1:2)	TWA	10 mg/m3	Solvay Acceptable Exposure Limit

## **Exposure controls**

#### **Control measures**

**Engineering measures** Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is

formed. Apply technical measures to comply with the occupational exposure limits.

**Basis** 

# **Individual protection measures**

Ingredients

Respiratory protection Use only respiratory protection that conforms to international/ national standards.

Use NIOSH approved respiratory protection. Respirator with a dust filter

Value

**Hand protection** Wear suitable gloves.

> Non-recommended materials: Leather, cotton Suitable material: PVC; Neoprene; Natural Rubber

Chemical resistant goggles must be worn. Eye protection

Skin and body protection Protective suit

**Hygiene measures** Use only in an area equipped with a safety shower. Eye wash bottle with pure water

Handle in accordance with good industrial hygiene and safety practice for diagnostics.

# Section 9. Physical and chemical properties

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product information phone number in Section 1 for its exact specifications.



# Information on basic physical and chemical properties

Form: powder

Physical state: solid

Color: white

Odor odorless

Odor Threshold no data available

pH 10.4 - 10.6 (10.1 g/l)

Boiling point/boiling range Not applicable

Flash point Not applicable

Evaporation rate (Butylacetate = 1) no data available

Flammability (solid, gas)

The product is not flammable.

Flammability / Explosive limit Not explosive

Autoignition temperature no data available

Vapor pressure Not applicable

Vapor density Not applicable

Bulk Density 900 - 1,200 kg/m3

Water Solubility 150 g/l ( 68 °F (20 °C))

n-octanol/water Partition coefficient: Not applicable

Thermal decomposition Self-Accelerating decomposition temperature (SADT)

> 131 °F (> 55 °C)

50 kg

Viscosity, Dynamic Not applicable

Explosive properties no data available

Oxidizing properties Oxidizing

Henry's Constant Air

Molecular weight 314.06 g/mol

# Section 10. Stability and reactivity

Reactivity Decomposes when moist. Decomposes on heating. Potential for exothermic hazard



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Chemical stability Potential for exothermic hazard. Stable under recommended storage conditions.

Possibility of hazardous reactions Contact with combustible material may cause fire. Contact with flammables may

cause fire or explosions. Risk of explosion if heated under confinement. Fire or

intense heat may cause violent rupture of packages.

Conditions to avoid Exposure to moisture. To avoid thermal decomposition, do not overheat.

Incompatible materials Water; Acids; Bases; Heavy metal salts; Reducing agents; Organic materials;

Flammable materials: Combustible material

Hazardous decomposition products Oxygen

# **Section 11. Toxicological information**

## Information on toxicological effects

# **Acute toxicity**

**Acute oral toxicity** Acute inhalation toxicity Acute dermal toxicity **Acute toxicity (other routes** 

of administration)

no data available

LD50: 1,034 mg/kg - Rat

LC0 - 1 h > 4,580 mg/m3 - RatLD 10 > 2,000 mg/kg - Rabbit

**Skin corrosion/irritation** 

Rabbit slight irritation

Rabbit

Serious eye damage/eye irritation

Risk of serious damage to eyes.

Respiratory or skin sensitization

no data available

# **Mutagenicity**

# Genotoxicity in vitro

Carbonic acid sodium salt (1:2) By analogy

> Ames test with metabolic activation Product is not considered to be genotoxic

Published data

Strain: Escherichia coli without metabolic activation

negative

Product is not considered to be genotoxic

Published data

Genotoxicity in vivo no data available

**PAK 27 Algaecide** 

<u>Carcinogenicity</u> no data available

This product does not contain any ingredient designated as probable or suspected human carcinogens by:

NTP IARC OSHA ACGIH

## Toxicity for reproduction and development

Toxicity to reproduction / fertility

Sodium silicate SiO2/Na2O Repeated exposure - Rat

NOEL parent: > 159 mg/kg

**Developmental Toxicity/Teratogenicity** 

Carbonic acid sodium salt (1:2) Mouse, female

Application Route: Oral

NOAEL teratogenicity: >= 580 mg/kg NOAEL maternal: >= 580 mg/kg

Method: according to a standardized method

no embryotoxic or teratogenic effects have been observed

Unpublished reports

<u>STOT</u>

STOT-single exposure

Carbonic acid sodium salt (1:2) The substance or mixture is not classified as specific target organ toxicant, single

exposure.

internal evaluation

Sodium silicate SiO2/Na2O Routes of exposure: Inhalation

The substance or mixture is classified as specific target organ toxicant, single

exposure, category 3 with respiratory tract irritation.

STOT-repeated exposure

Carbonic acid sodium salt (1:2) The substance or mixture is not classified as specific target organ toxicant,

repeated exposure. internal evaluation

Aspiration toxicity Further information no data available Harmful if swallowed.

Risk of serious damage to eyes.

Irritating to respiratory system and skin.

# Section 12. Ecological information

**Toxicity** 

Aquatic Compartment

Acute toxicity to fish LC50: 71 mg/l - Pimephales promelas (fathead minnow)

NOEC - 96 h : 7.4 mg/l - Pimephales promelas (fathead minnow)

Acute toxicity to daphnia and

other aquatic invertebrates. EC50 : 4.9 mg/l - Daphnia pulex (Water flea) NOEC - 48 h : 2 mg/l - Daphnia pulex (Water flea)

DEC - 48 n : 2 mg/l - Dapnnia pulex (wa

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Toxicity to aquatic plants

Sodium silicate SiO2/Na2O EC50 - 72 h : 345.4 mg/l - Algae : Desmodesmus subspicatus (Scenedesmus

subspicatus)

EbC50 - 72 h : 207 mg/l - Algae : Desmodesmus subspicatus (Scenedesmus

subspicatus)

Persistence and degradability

Abiotic degradation

Stability in water Medium, Water, Soil, Hydrolyzis

Photodegradation Not applicable

**Biodegradation** 

**Biodegradability**The methods for determining biodegradability are not applicable to inorganic

substances.

**Degradability assessment** 

Carbonic acid sodium salt (1:2) The product is not considered to be rapidly degradable in the environment

Bioaccumulative potential

Bioconcentration factor (BCF) Not applicable

Mobility in soil

Adsorption potential (Koc) Air

Not applicable

Water

considerable solubility and mobility

Soil/sediments

non-significant adsorption

Results of PBT and vPvB assessment

Carbonic acid sodium salt (1:2) Not applicable, inorganic substance

Other adverse effects no data available

**Ecotoxicity assessment** 

Acute aquatic toxicity

Carbonic acid sodium salt (1:2) Not harmful to aquatic life (LC/EC50 > 100 mg/L)

Chronic aquatic toxicity

Carbonic acid sodium salt (1:2) Not classified due to data which are conclusive although insufficient for classification.

**Remarks** Contains a(many) hazardous substance(s) for the environment. Under massive form,

product is biologically inert and non-degradable. Ingestion of solids may cause harm to wildlife due to intestinal mechanical blockage or starvation from false feeling of

satiation.



# Section 13. Disposal considerations

#### Waste treatment methods

**Product Disposal**Dilute with plenty of water. Dispose of wastes in an approved waste disposal facility.

Can be landfilled, when in compliance with local regulations. In accordance with local

and national regulations.

**Waste Code** 

**Environmental Protection Agency** 

Hazardous Waste - YES

RCRA Hazardous Waste (40 CFR 302)

D001 - Ignitable waste - (I)

Advice on cleaning and disposal

of packaging

Clean container with water. Empty containers should be taken to an approved waste

handling site for recycling or disposal.

Uncleaned empty packaging: Dispose of as unused product in accordance with local

and national regulations.

# **Section 14. Transport information**

Transportation status: IMPORTANT! Statements below provide additional data on listed transport classification. The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

#### DOT

UN number UN 3378

Proper shipping name SODIUM CARBONATE PEROXYHYDRATE

Transport hazard class 5.1
Label(s) 5.1

Packing group
Packing group

Packing group III ERG No 140 Environmental hazards NO

Marine pollutant

**TDG** 

UN number UN 3378

Proper shipping name SODIUM CARBONATE PEROXYHYDRATE

**Transport hazard class** 5.1 Label(s) 5.1

**Packing group** 

Packing group III
Environmental hazards NO

Marine pollutant

**NOM** 

UN number UN 3378

Proper shipping name SODIUM CARBONATE PEROXYHYDRATE

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Transport hazard class 5.1 Label(s) 5.1

**Packing group** 

Packing group III ERG No 140 Environmental hazards NO

Marine pollutant

**IMDG** 

UN number UN 3378

Proper shipping name SODIUM CARBONATE PEROXYHYDRATE

**Transport hazard class** 5.1 Label(s) 5.1

Packing group

Packing group III
Environmental hazards NO

Marine pollutant

Special precautions for user

EmS F-A, S-Q

For personal protection see section 8.

IATA

UN number UN 3378

Proper shipping name SODIUM CARBONATE PEROXYHYDRATE

Transport hazard class 5.1

Label(s): 5.1

Packing group

Packing group III
Packing instruction (cargo aircraft) 563
Max net qty / pkg 100.00 kg

Packing instruction

(passenger aircraft) 559
Max net qty / pkg 25.00 kg
Environmental hazards NO

**Special precautions for user** For personal protection see section 8.

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

# Section 15. Regulatory information

# Notification status

Inventory Status

United States TSCA Inventory - In compliance with the inventory

New Zealand. Inventory of Chemical Substances

Canadian Domestic Substances List (DSL)

Australia Inventory of Chemical Substances (AICS)

Japan. CSCL - Inventory of Existing and New Chemical Substances

Korea. Korean Existing Chemicals Inventory (KECI)

China. Inventory of Existing Chemical Substances in China (IECSC)

In compliance with the inventory In compliance with the inventory

In compliance with the inventory

**Status** 



Philippines Inventory of Chemicals and Chemical Substances (PICCS)

In compliance with the inventory

#### Federal Regulations

# **US EPA EPCRS SARA Title III**

# SARA HAZARD DESIGNATION SECTIONS 311/312 (40 CFR 370)

Fire Hazard	Yes
Reactivity Hazard	No
Sudden Release of Pressure Hazard	No
Acute Health Hazard	No
Chronic Health Hazard	No

## Section 313 Toxic Chemicals (40 CFR 372.65)

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## Section 302 Emergency Planning Extremely Hazardous Substance Threshold Planning Quantity (40 CFR 355)

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

# Section 302 Emergency Planning Extremely Hazardous Substance Reportable Quantity (40 CFR 355)

This material does not contain any components with a SARA 302 RQ.

## Section 304 Emergency Release Notification Reportable Quantity (40 CFR 355)

This material does not contain any components with a section 304 EHS RQ.

# US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

This material does not contain any components with a CERCLA RQ.

## State Regulations

### US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

# Section 16. Other information

# NFPA (National Fire Protection Association) - Classification

Health 2 moderate
Flammability 0 minimal
Instability or Reactivity 1 slight
Special Notices OX Oxidizer

# HMIS (Hazardous Materials Identification System (Paint & Coating)) - Classification

Health 2 moderate
Flammability 0 minimal
Reactivity 1 slight

PPE Determined by User; dependent on local conditions



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### **Further information**

Product evaluated under the US GHS format.

**Date Prepared:** 05/21/15

ACGIH American Conference of Governmental Industrial Hygienists

OSHA Occupational Safety and Health Administration

NTP National Toxicology Program

IARC International Agency for Research on Cancer

NIOSH National Institute for Occupational Safety and Health

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.