

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- Trade name PAK® 27 ALGAECIDE

1.2 Relevant identified uses of the substance or mixture and uses advised against**Uses of the Substance / Mixture**

- It is a violation of federal law to use this product in a manner inconsistent with its labeling.
- Active ingredient in pesticides, used only for formulation into end products which the EPA has approved.
- Contact your supplier for additional information

1.3 Details of the supplier of the safety data sheet**Company**

SOLVAY CHEMICALS, INC.
3737 Buffalo Speedway,
Suite 800,
Houston, TX 77098
USA
Tel: +1-800-7658292; +1-713-5256800
Fax: +1-713-5257804

1.4 Emergency telephone

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CONTACT CHEMTREC (24-Hour Number): 800-424-9300 within the United States and Canada, or 703-527-3887 for international collect calls.

SECTION 2: Hazards identification

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

2.1 Classification of the substance or mixture**HCS 2012 (29 CFR 1910.1200)**

Oxidizing solids, Category 3
Acute toxicity, Category 4
Serious eye damage, Category 1

H272: May intensify fire; oxidizer.
H302: Harmful if swallowed.
H318: Causes serious eye damage.

2.2 Label elements**HCS 2012 (29 CFR 1910.1200)****Pictogram****Signal Word**

- Danger

Hazard Statements

- H272 May intensify fire; oxidizer.
- H302 Harmful if swallowed.
- H318 Causes serious eye damage.

Precautionary StatementsPrevention

- P210 Keep away from heat.
- P220 Keep/Store away from clothing/ combustible materials.
- P221 Take any precaution to avoid mixing with combustibles.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/ eye protection/ face protection.

Response

- P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
- 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.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

2.3 Other hazards which do not result in classification

- H401: Toxic to aquatic life.

SECTION 3: Composition/information on ingredients**3.1 Substance**

- Not applicable, this product is a mixture.

3.2 Mixture

- Chemical nature Multi constituent substance
Stabilized product

Hazardous Ingredients and Impurities

Chemical name	Identification number CAS-No.	Concentration [%]
Carbonic acid sodium salt (1:2), compd. with hydrogen peroxide (H ₂ O ₂) (2:3)	15630-89-4	>= 85
Carbonic acid sodium salt (1:2)	497-19-8	<= 13
Silicic acid, sodium salt	1344-09-8	<= 1.5

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4: First aid measures**4.1 Description of first-aid measures****In case of inhalation**

- 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.

In case of eye contact

- 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).

In case of ingestion

- 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.
- 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.

4.2 Most important symptoms and effects, both acute and delayed**In case of inhalation****Effects**

- May cause nose, throat, and lung irritation.

In case of skin contact**Effects**

- Prolonged skin contact may cause skin irritation.

In case of eye contact**Symptoms**

- Redness
- Lachrymation
- Swelling of tissue

Effects

- Severe eye irritation
- Risk of serious damage to eyes.

In case of ingestion**Symptoms**

- Severe irritation
- Nausea
- Abdominal pain
- Vomiting
- Diarrhea

4.3 Indication of any immediate medical attention and special treatment needed

- no data available

SECTION 5: Firefighting measures

Flash point Not applicable

Autoignition temperature No data available

Flammability / Explosive limit No data available

5.1 Extinguishing media**Suitable extinguishing media**

- Water
- Water spray

Unsuitable extinguishing media

- None.

5.2 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

5.3 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.

Further information

- Keep product and empty container away from heat and sources of ignition.

SECTION 6: Accidental release measures**6.1 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.

6.2 Environmental precautions

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- 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.

6.3 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.

6.4 Reference to other sections

- no data available

SECTION 7: Handling and storage

7.1 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.

7.2 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

Packaging material**Suitable material**

- Stainless steel
- Polyethylene
- Paper + PE coating.

7.3 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.

8.1 Control parameters**Components with workplace occupational exposure limits**

Ingredients	Value type	Value	Basis
Carbonic acid sodium salt (1:2), compd. with hydrogen peroxide (H ₂ O ₂) (2:3)	TWA	5 mg/m ³	Solvay Acceptable Exposure Limit
Carbonic acid sodium salt (1:2)	TWA	10 mg/m ³	Solvay Acceptable Exposure Limit

8.2 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.

Individual protection measures

Respiratory protection

- Use only respiratory protection that conforms to international/ national standards.
- Use NIOSH approved respiratory protection.
- Respirator with a dust filter

Hand protection

- Wear suitable gloves.
- Non-recommended materials: Leather, cotton

Suitable material

- PVC
- Neoprene
- Natural Rubber

Eye protection

- Chemical resistant goggles must be worn.

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.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	Form: powder
	Physical state: solid
	Color: white
<u>Odor</u>	odorless
<u>Odor Threshold</u>	No data available
<u>Molecular weight</u>	314.06 g/mol
<u>pH</u>	10.4 - 10.6 (10.1 g/l)
<u>Melting point/freezing point</u>	No data available

<u>Initial boiling point and boiling range</u>	<u>Boiling point/boiling range:</u> Not applicable
<u>Flash point</u>	Not applicable
<u>Evaporation rate (Butylacetate = 1)</u>	No data available
<u>Flammability (solid, gas)</u>	The product is not flammable.
<u>Flammability / Explosive limit</u>	<u>Explosiveness:</u> Not explosive
<u>Autoignition temperature</u>	No data available
<u>Vapor pressure</u>	Not applicable
<u>Vapor density</u>	Not applicable
<u>Density</u>	<u>Bulk density:</u> 900 - 1,200 kg/m ³
<u>Relative density</u>	No data available
<u>Solubility</u>	<u>Water solubility:</u> 150 g/l (68 °F (20 °C))
<u>Partition coefficient: n-octanol/water</u>	Not applicable
<u>Decomposition temperature</u>	Self-Accelerating decomposition temperature (SADT)
<u>Decomposition temperature</u>	> 131 °F (> 55 °C) 50 kg
<u>Viscosity</u>	<u>Viscosity, dynamic :</u> Not applicable
<u>Explosive properties</u>	No data available
<u>Oxidizing properties</u>	The substance or mixture is classified as oxidizing with the category 3. Oxidizing

9.2 Other information

No data available

Henry's Constant Air**SECTION 10: Stability and reactivity****10.1 Reactivity**

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

10.2 Chemical stability

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- Potential for exothermic hazard
- Stable under recommended storage conditions.

10.3 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.

10.4 Conditions to avoid

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

10.5 Incompatible materials

- Water
- Acids
- Bases
- Heavy metal salts
- Reducing agents
- Organic materials
- Flammable materials
- Combustible material

10.6 Hazardous decomposition products

- Oxygen

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Acute oral toxicity	LD50 : 1,034 mg/kg - Rat
Acute inhalation toxicity	LC0 - 1 h > 4,580 mg/m3 - Rat
Acute dermal toxicity	LD 10 > 2,000 mg/kg - Rabbit
Acute toxicity (other routes of administration)	No data available

Skin corrosion/irritation

Rabbit
slight irritation

Serious eye damage/eye irritation

Rabbit
Risk of serious damage to eyes.

Respiratory or skin sensitization

Carbonic acid sodium salt (1:2), compd. with hydrogen peroxide (H ₂ O ₂) (2:3)	Buehler Test - Guinea pig Does not cause skin sensitization. Unpublished reports
Silicic acid, sodium salt	By analogy Local lymph node assay - Mouse The substance or mixture is not considered to be sensitizing by skin contact. Method: OECD Test Guideline 429 Unpublished reports

Mutagenicity**Genotoxicity in vitro**

Carbonic acid sodium salt (1:2), compd. with hydrogen peroxide (H ₂ O ₂) (2:3)	By analogy In vitro tests showed mutagenic effects Published data
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
Silicic acid, sodium salt	In vitro tests did not show mutagenic effects

Genotoxicity in vivo

Carbonic acid sodium salt (1:2), compd. with hydrogen peroxide (H ₂ O ₂) (2:3)	By analogy Product is not considered to be genotoxic Published data
Silicic acid, sodium salt	By analogy Chromosome aberration test in vivo - Mouse male Oral Method: OECD Test Guideline 475 In vivo tests did not show mutagenic effects Published data

Carcinogenicity

No data available

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

NTP
IARC
OSHA

Toxicity for reproduction and development**Toxicity to reproduction / fertility**

Carbonic acid sodium salt (1:2), compd. with hydrogen peroxide (H₂O₂) (2:3) By analogy, The product is not considered to affect fertility., Published data
 Silicic acid, sodium salt Fertility study 4 generations - Rat, male and female
 Oral
 Fertility NOAEL Parent: > 159 mg/kg bw/day
 Published data

Developmental Toxicity/Teratogenicity

Carbonic acid sodium salt (1:2), compd. with hydrogen peroxide (H₂O₂) (2:3) By analogy, The product is not considered to be embryotoxic / fetotoxic., Published data
 (2:3)
 Carbonic acid sodium salt (1:2) Oral
 General Toxicity Maternal NOAEL: >= 580 mg/kg
 Teratogenicity NOAEL:>= 580mg/kg
 according to a standardized method
 no embryotoxic or teratogenic effects have been observed, Unpublished reports

Silicic acid, sodium salt By analogy
 Oral
 18 Days
 no embryotoxic or teratogenic effects have been observed, Published data

STOT**STOT-single exposure**

Carbonic acid sodium salt (1:2), compd. with hydrogen peroxide (H₂O₂) (2:3) The substance or mixture is not classified as specific target organ toxicant, single exposure according to GHS criteria.

Carbonic acid sodium salt (1:2) The substance or mixture is not classified as specific target organ toxicant, single exposure according to GHS criteria.
 internal evaluation

STOT-repeated exposure

Carbonic acid sodium salt (1:2), compd. with hydrogen peroxide (H₂O₂) (2:3) By analogy, The substance or mixture is not classified as specific target organ toxicant, repeated exposure according to GHS criteria.

Carbonic acid sodium salt (1:2) The substance or mixture is not classified as specific target organ toxicant, repeated exposure according to GHS criteria.
 internal evaluation

Carbonic acid sodium salt (1:2), compd. with hydrogen peroxide (H₂O₂) (2:3) By analogy
 90-day - Rat
 NOAEL: 100 ppm
 Test substance: Hydrogen peroxide
 Target Organs: Gastrointestinal tract
 Method: OECD Test Guideline 408
 drinking water
 Unpublished reports

Silicic acid, sodium salt Oral 180 Days - Rat , male and female
 NOAEL: > 159 mg/kg

Unpublished reports

Experience with human exposure

No data available

Aspiration toxicity

Carbonic acid sodium salt (1:2), compd. with hydrogen peroxide (H₂O₂) (2:3) Not applicable, Expert judgment, No aspiration toxicity classification

Further information

Harmful if swallowed.
Risk of serious damage to eyes.
Irritating to respiratory system and skin.

SECTION 12: Ecological information**12.1 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)

Toxicity to aquatic plants

Carbonic acid sodium salt (1:2), compd. with hydrogen peroxide (H₂O₂) (2:3) ErC50 - 72 h : 2.62 mg/l - Skeletonema costatum (marine diatom)
static test
Analytical monitoring: yes
Test substance: Hydrogen peroxide
By analogy
Unpublished reports
Toxic to algae.

Silicic acid, sodium salt

ErC50 - 72 h : 207 mg/l - Algae : Desmodesmus subspicatus (Scenedesmus subspicatus)
Method: OECD Test Guideline 201
Unpublished reports
Not harmful to algae (EC/EL50 > 100 mg/L)

NOEC - 72 h : > 345.5 mg/l - Algae : Desmodesmus subspicatus (Scenedesmus subspicatus)
Endpoint: Growth rate
Method: OECD Test Guideline 201
Unpublished reports
No adverse chronic effect observed up to and including the threshold of 1 mg / L.

Toxicity to microorganisms

Silicic acid, sodium salt

NOEC - 18 h : > 348 mg/l - Pseudomonas putida

Method: OECD Test Guideline 209

Unpublished reports

Non neutralized product

Chronic toxicity to fish

No data available

Chronic toxicity to daphnia and other aquatic invertebrates

No data available

12.2 Persistence and degradability**Abiotic degradation****Stability in water**

Medium, Water, Soil, Hydrolysis

Photodegradation

Not applicable

Physical- and photo-chemical elimination

No data available

Biodegradation**Biodegradability**

The methods for determining biodegradability are not applicable to inorganic substances.

Degradability assessmentCarbonic acid sodium salt (1:2), compd. with hydrogen peroxide (H₂O₂) (2:3)

The product is not considered to be rapidly degradable in the environment

Carbonic acid sodium salt (1:2)

The product is not considered to be rapidly degradable in the environment

Silicic acid, sodium salt

The product is not considered to be rapidly transformed in the environment

12.3 Bioaccumulative potential**Partition coefficient: n-octanol/water**

No data available

Bioconcentration factor (BCF)

Not applicable

12.4 Mobility in soil**Adsorption potential (Koc)**

Air
Not applicable

Water
considerable solubility and mobility

Soil/sediments
non-significant adsorption

Known distribution to environmental compartments

Carbonic acid sodium salt (1:2), compd. Expert statement
with hydrogen peroxide (H₂O₂) (2:3) Not applicable

12.5 Results of PBT and vPvB assessment

Carbonic acid sodium salt (1:2), compd. This substance is not considered to be persistent, bioaccumulating, and toxic
with hydrogen peroxide (H₂O₂) (2:3) (PBT).
This substance is not considered to be very persistent and very bioaccumulating
(vPvB).

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

Silicic acid, sodium salt Not applicable, inorganic substance

PAK® 27 ALGAEICIDE

Revision Date 06/20/2018

12.6 Other adverse effects**Ozone-Depletion Potential**

Regulatory basis: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
 Regulatory list: ZUS_CAA_I
 This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Ecotoxicity assessment**Acute aquatic toxicity**

Carbonic acid sodium salt (1:2), compd. Toxic to aquatic life.
 with hydrogen peroxide (H₂O₂) (2:3)
 Carbonic acid sodium salt (1:2) Not harmful to aquatic life (LC/LL50, EC/EL50 > 100 mg/L)

Silicic acid, sodium salt Not harmful to aquatic life (LC/LL50, EC/EL50 > 100 mg/L)

Chronic aquatic toxicity

Carbonic acid sodium salt (1:2), compd. Not classified due to data which are conclusive although insufficient for classification.
 with hydrogen peroxide (H₂O₂) (2:3)

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

Silicic acid, sodium salt 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**13.1 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

14.1 UN number	UN 3378
14.2 Proper shipping name	SODIUM CARBONATE PEROXYHYDRATE
14.3 Transport hazard class Label(s)	5.1 5.1
14.4 Packing group Packing group ERG No	III 140
14.5 Environmental hazards Marine pollutant	NO

TDG

14.1 UN number	UN 3378
14.2 Proper shipping name	SODIUM CARBONATE PEROXYHYDRATE
14.3 Transport hazard class Label(s)	5.1 5.1
14.4 Packing group Packing group ERG No	III 140
14.5 Environmental hazards Marine pollutant	NO

NOM

14.1 UN number	UN 3378
14.2 Proper shipping name	SODIUM CARBONATE PEROXYHYDRATE
14.3 Transport hazard class Label(s)	5.1 5.1

PAK® 27 ALGAEICIDE

Revision Date 06/20/2018

14.4 Packing group

Packing group	III
ERG No	140

14.5 Environmental hazards

Marine pollutant	NO
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IMDG**14.1 UN number**

UN 3378

14.2 Proper shipping name

SODIUM CARBONATE PEROXYHYDRATE

14.3 Transport hazard class

5.1

Label(s)	5.1
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14.4 Packing group

Packing group	III
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14.5 Environmental hazards

Marine pollutant	NO
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14.6 Special precautions for user

EmS	F-A , S-Q
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For personal protection see section 8.

IATA**14.1 UN number**

UN 3378

14.2 Proper shipping name

SODIUM CARBONATE PEROXYHYDRATE

14.3 Transport hazard class

5.1

Label(s):	5.1
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14.4 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

14.5 Environmental hazards

NO

14.6 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**15.1 Notification status**

Inventory Information	Status
United States TSCA Inventory	- In compliance with the inventory
New Zealand. Inventory of Chemical Substances	- In compliance with the inventory
Canadian Domestic Substances List (DSL)	- In compliance with the inventory
Australia Inventory of Chemical Substances (AICS)	- In compliance with the inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- In compliance with the inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- In compliance with the inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- In compliance with the inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- In compliance with the inventory

15.2 Federal Regulations**US. EPA EPCRA SARA Title III****SARA HAZARD DESIGNATION SECTIONS 311/312 (40 CFR 370)**

Oxidizer (liquid, solid or gas)	Yes
Acute toxicity (any route of exposure)	Yes
Serious eye damage or eye irritation	Yes

The categories not mentioned are not relevant for the product.

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)

This material does not contain any components with a section 302 EHS TPQ.

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.

15.3 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

Further information

- Product evaluated under the US GHS format.
- NSF permits use of this product as an oxidant at a maximum use rate of 33 mg/L.
- NSF permits use of this product as an algicide at a maximum use rate of 33 mg/L.
- NSF permits use of this product as an oxidant at a maximum use rate of 33 mg/L.
- NSF permits use of this product as an algicide at a maximum use rate of 33 mg/L.

Date Prepared: 06/20/2018

- 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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.