



**Product name: Peracetic Acid 5%**

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### Environmental Hazards

Acute hazards to the aquatic environment	Category 2
Chronic hazards to the aquatic environment	Category 1

### Label Elements

#### Hazard Symbol:



**Signal Word:** Danger

**Hazard Statement:** May be corrosive to metals.  
Harmful if swallowed, in contact with skin or if inhaled.  
Causes severe skin burns and eye damage.  
May cause respiratory irritation.  
Very toxic to aquatic life with long lasting effects.

#### Precautionary Statements

**Prevention:** Keep only in original packaging. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Use personal protective equipment as required. Avoid release to the environment.

**Response:** IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF SWALLOWED: Call a POISON CENTRE/doctor/... if you feel unwell. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Collect spillage.

**Storage:** Store in a corrosion-resistant container with a resistant inner liner. Store locked up. Store in a well-ventilated place. Keep container tightly closed.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Hazard(s) not otherwise classified (HNOC):** None.

### 3. Composition/information on ingredients

**Product name: Peracetic Acid 5%**

## Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Peracetic acid		79-21-0	4.5 - 5.4%
Hydrogen peroxide		7722-84-1	>=25 - <30%
Acetic acid		64-19-7	>=7 - <13%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition Comments:** Preparation of perethanoic acid, hydrogen peroxide, ethanoic acid and water in balance.

The exact concentration has been withheld as a trade secret.

## 4. First-aid measures

### Description of necessary first-aid measures

**General information:** Pay attention to self-protection. Remove victims from hazardous area. Immediately remove soiled or soaked clothing and remove it to a safe distance. Keep victim warm, in a stabilized position and covered. Do not leave victims unattended. If the casualty is unconscious: Place the victim in the recovery position.

**Inhalation:** Potential for exposure by inhalation if aerosols or mists are generated. Move victims into fresh air. With labored breathing: Provide with oxygen. Consult a doctor. If the casualty is not breathing: Perform mouth-to-mouth resuscitation, notify emergency physician immediately.

**Skin Contact:** Take off all contaminated clothing immediately. Wash off affected area immediately with plenty of water for at least 15 minutes. If symptoms persist, consult a physician for treatment.

**Eye contact:** With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes. Consult an ophthalmologist immediately if the symptoms persist. When dealing with caustic substances, notify emergency physician immediately (key words: burns in eye).

**Ingestion:** Rinse mouth. Immediately give large quantities of water to drink. Do NOT induce vomiting. Do not administer activated charcoal. Obtain medical attention. When dealing with caustic substances, notify emergency physician immediately.

**Personal Protection for First-aid Responders:** In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

### Most important symptoms/effects, acute and delayed

**Symptoms:** Strongly irritating to corrosive. daze, Headache, vertigo, somnolence (sleepiness), nausea.

**Hazards:** Strongly irritating to corrosive. Harmful by inhalation, in contact with skin and if swallowed. Vapours may cause drowsiness and dizziness.

### Indication of immediate medical attention and special treatment needed

**Product name: Peracetic Acid 5%**

**Treatment:** The initial focus is only on the local action, characterized by quickly progressing deep tissue damage. In the eye, caustic/ irritating and harmful liquids cause, depending on the intensity of exposure, various levels of irritation, destruction, and ablation of the epithelium of the conjunctiva and cornea, corneal clouding, edema and ulcerations. Danger! Possible loss of eyesight! Superficial irritations and damage up to ulcerations and scarring develop on the skin. After accidental absorption in the body, the pathology and clinical findings are dependent on the kinetics of the substance (quantity of absorbed substance, the absorption time, and the effectiveness of early elimination measures (first aid)/ excretion - metabolism). A specific action of the substance is unknown. In case of substances with high water solubility, irritations up to formation of necrosis in the upper respiratory tract may result after inhalation of caustic/ irritating aerosols and mists. The initial focus is on the local action: signs of irritation of the respiratory tract such as coughing, burning behind the sternum, tears, burning in the eyes or nose. There is a risk of pulmonary edema!

**5. Fire-fighting measures**

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Water spray, foam, dry powder or carbon dioxide. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** Do not use full-force water jet in order to avoid dispersal and spread of the fire. Organic compounds.

**Specific hazards arising from the chemical:** Involved in fire, it may decompose yielding oxygen. Release of oxygen may support combustion. Risk of overpressure and burst due to decomposition in confined spaces and pipes. Hazardous substances might be released in case of fire. carbon monoxide, carbon dioxide

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** Evacuate personnel to safe areas. Keep out unprotected persons. Remove sources of ignition. In case of fire, remove the endangered containers and bring to a safe place, if this can be done safely. In the case of fire, cool the containers that are at risk with water or dilute with water (flooding). Ensure there are sufficient retaining facilities for water used to extinguish fire. Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Special protective equipment for fire-fighters:** In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Keep out unprotected persons. Evacuate personnel to safe areas.

**Accidental release measures:** In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. Evacuate area and do not approach spilled product.

**Product name: Peracetic Acid 5%**

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<b>For emergency responders:</b>	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. Make safe or remove all sources of ignition. Do not inhale vapours / aerosols. Avoid contact with eyes, skin, and clothing. Isolate defective containers immediately, if possible and safe to do. Shut off leak, if possible and safe to do. Place defective containers in waste receptacle (waste packaging receptacle) made of plastic (not metal). Do not seal defective containers or waste receptacles airtight (danger of bursting due to product decomposition). Never return spilled product into its original container for re-use. (Risk of decomposition.). Release of oxygen may support combustion.
<b>Methods and material for containment and cleaning up:</b>	Absorb with liquid-binding material (e.g. inert absorbent universalbinder) pick up. Do not use: textiles, saw dust, combustible substances. Rinse away any residue with plenty of water. Dispose of absorbed material in accordance with the regulations. Pack and label wastes like the pure substance. Do not detach label from the delivery containers prior to disposal. Clean contaminated surface thoroughly. Recommended cleaning agent: water. Ventilate room.
<b>Environmental Precautions:</b>	Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil. If the product contaminates rivers and lakes or drains inform respective authorities.

## 7. Handling and storage

### Handling

<b>Technical measures (e.g. Local and general ventilation):</b>	Ensure suitable suction/aeration at the work place and with operational machinery. Suitable measuring processes are: Hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> ) OSHA method ID 006 OSHA method VI-6 Acetic acid NIOSH method 1603 OSHA method ID 186
<b>Safe handling advice:</b>	Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment. Check the proper condition of personal safety equipment before use. Observe ergonomic requirements when selecting personal safety equipment. Avoid contact with eyes, skin, and clothing. The work-place related airborne concentrations have to be kept below of the indicated exposure limits. If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used. Do not breathe in vapours, aerosols, sprays. Ensure there is good room ventilation. Immediately change moistened and saturated work clothes. Immediately rinse contaminated or saturated clothing with water. Avoid impurities and heat effect. Never return spilled product into its original container for re-use. (Risk of decomposition.). Provide for installation of emergency shower and eye bath. Set up safety and operation procedures. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.
<b>Contact avoidance measures:</b>	No data available.

**Product name: Peracetic Acid 5%**

**Hygiene measures:**

Avoid contact with eyes, skin, and clothing. Do not inhale vapour, aerosols, mist. Ensure there is good room ventilation. Immediately rinse contaminated or saturated clothing with water. Immediately change moistened and saturated work clothes. Any contaminated protective equipment is to be cleaned after use. Contaminated work clothing should not be allowed out of the workplace. No eating, drinking, smoking, or snuffing tobacco at work. Wash face and/or hands before break and end of work. Preventive skin protection Use barrier cream regularly.

**Storage**

**Safe storage conditions:**

Avoid sun rays, heat, heat effect. Temperature requirement during storage max. 40 °C. Store in original container. well ventilated, dry, clean, lockable. Use adequate venting devices on all packages, containers and tanks and check correct operation periodically. Do not confine product in unvented vessels or between closed valves. Risk of overpressure and burst due to decomposition in confined spaces and pipes. Check containers and tanks at regular intervals to detect any special changes such as pressure build-up (distension), damage, leakage. Transport and store container in upright position only. Do not empty container by means of pressure. Always close container tightly after removal of product. Do not keep the container sealed. Assure impermeability at all times. Avoid residues of the product on the containers. Store containers in such a manner that liquids released are collected in a catch vessel in case of leaks. Do not store together with: alkalis, reductants, metallic salts (risk of decomposition). Do not store together with: inflammable substances (risk of fire). Keep away from incompatible substances. Release of oxygen may support combustion. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Regularly verify the availability of water to deal with emergencies (for cooling, tank flooding, fire fighting) and check correct operation periodically. For detailed information on design specifications for the construction of tank- and dosing installations ask the producer for advice. Only use containers which are specially permitted for: Peracetic acid. For transport, storage and tank installations only use suitable materials. - Suitable container material: Polyethylene. polypropylene polytetrafluoroethylene Polyvinyl chloride (PVC). glass ceramics. , Inadequate materials are: Iron. Copper brass Bronze aluminium zinc Lead tin Mild steel.

**Safe packaging materials:**

No data available.

**Storage Temperature:**

No data available.

**8. Exposure controls/personal protection**

**Control Parameters**

**Occupational Exposure Limits**

Chemical Identity	Type	Exposure Limit Values	Source
Hydrogen peroxide	TWA	1 ppm	US. ACGIH Threshold Limit Values, as amended (03 2016)
	REL	1 ppm      1.4 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	PEL	1 ppm      1.4 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)
	IDLH	75 ppm	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
	TWA	1 ppm      1.4 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000),

**Product name: Peracetic Acid 5%**

				as amended (1989)
	TWA	1 ppm	1.4 mg/m <sup>3</sup>	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
	ST ESL		14 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)
	ST ESL		10 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)
	AN ESL		1.4 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)
	AN ESL		1 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)
Hydrogen peroxide - as H <sub>2</sub> O <sub>2</sub>	TWA PEL	1 ppm	1.4 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)
Acetic acid	TWA	10 ppm		US. ACGIH Threshold Limit Values, as amended (03 2016)
	STEL	15 ppm		US. ACGIH Threshold Limit Values, as amended (03 2016)
	STEL	15 ppm	37 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	REL	10 ppm	25 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	PEL	10 ppm	25 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)
	IDLH	50 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
	TWA	10 ppm	25 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	10 ppm	25 mg/m <sup>3</sup>	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
	ST ESL		250 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)
	AN ESL		25 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)
	ST ESL		100 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)
	AN ESL		10 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)
	Ceiling	40 ppm		US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)
	STEL	15 ppm	37 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)
	TWA PEL	10 ppm	25 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)
Peracetic acid - Inhalable fraction and vapor.	STEL	0.4 ppm		US. ACGIH Threshold Limit Values, as amended (03 2016)

**Appropriate Engineering Controls**

Ensure suitable suction/aeration at the work place and with operational machinery. Suitable measuring processes are: Hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>) OSHA method ID 006 OSHA method VI-6 Acetic acid NIOSH method 1603 OSHA method ID 186

**Product name: Peracetic Acid 5%**

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### Individual protection measures, such as personal protective equipment

**Eye/face protection:** wear basket-shaped glasses or safety goggles with side-shields. When handling larger quantities: protective screen

#### Skin Protection

**Hand Protection:** Material: Polychloroprene (PCP)  
Break-through time: > 480 min  
Guideline: DIN EN 374  
Material: Natural Rubber/Natural latex (NR)  
Break-through time: > 480 min  
Guideline: DIN EN 374  
Additional Information: disposable gloves  
Additional Information: The above mentioned hand protection is based on knowledge of the chemistry and anticipated uses of this product but it may not be appropriate for all workplaces. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes prior to use., Use impermeable gloves., Personal protective equipment that provides a barrier to prevent dermal exposure to this substance is required.

**Skin and Body Protection:** Select materials and equipment for physical protection depending on the concentration and volume of hazardous substances and the workplace involved. Wear suitable protective clothing. acid-proof for example: Usual lab protective clothing Light-duty chemical protective clothing (type2) (DIN EN 943-1 / DIN EN 943-2) Foot protection: Wear safety boots, high, protection class S2 or S4 (DIN EN 20345) In case of larger quantities: If open handling is unavoidable: Heavy-duty chemical protective clothing (type1) (DIN EN 943-1 / DIN EN 943-2) Do not wear protective clothes containing cotton. Suitable materials are: PVC, neoprene, nitrile rubber, natural rubber. In order to determine further specifications applicable to the personal protection equipment, a hazard assessment according to the OSHA standards (29 CFR 1910.132) for personal protection equipment (PPE) is recommended before the product is used. Emergency eye wash fountains and safety showers should be available.

**Respiratory Protection:** If workplace exposure limit is exceeded apply Respiratory protective equipment. If necessary: Provide with fresh air. In case of larger quantities: If open handling is unavoidable: Wear respiratory protection for example: Full face mask with combination filter A2B2E2K1P2 (Draeger) Full face mask with combination filter OV/AG (3M) Full face mask with combination filter ABEK2P3 (3M) A self-contained breathing apparatus must be worn if the ambient oxygen content is < 17 % (v/v) or if the situation is uncertain. Self-contained breathing apparatus (EN 133) Observe limited wearing time of 30 minutes. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.



**Product name: Peracetic Acid 5%**

**Hygiene measures:** Avoid contact with eyes, skin, and clothing. Do not inhale vapour, aerosols, mist. Ensure there is good room ventilation. Immediately rinse contaminated or saturated clothing with water. Immediately change moistened and saturated work clothes. Any contaminated protective equipment is to be cleaned after use. Contaminated work clothing should not be allowed out of the workplace. No eating, drinking, smoking, or snuffing tobacco at work. Wash face and/or hands before break and end of work. Preventive skin protection Use barrier cream regularly.

## 9. Physical and chemical properties

### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	stinging, vinegar-like
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	approx. 0.2 (20 °C) OECD TG 122
<b>Freezing point:</b>	No data available.
<b>Boiling Point:</b>	>= 60 °C Not applicable Decomposition
<b>Flash Point:</b>	(ISO 2719) not measureable (formation of foam)
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	Not applicable liquid
<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density (air=1):</b>	No data available.
<b>Density:</b>	1.12 g/ml (20 °C) (OECD 109)
<b>Relative density:</b>	No data available.
<b>Solubility in Water:</b>	completely miscible
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	-0.26 (QSAR) calculated pH 7
<b>Self Ignition Temperature:</b>	The substance or mixture is not classified as pyrophoric. The substance or mixture is not classified as self heating.
<b>Decomposition Temperature:</b>	>= 60 °C Self-Accelerating decomposition temperature (SADT)
<b>Kinematic viscosity:</b>	1.208 mm <sup>2</sup> /s (20 °C, OECD 114)   0.814 mm <sup>2</sup> /s (40 °C, DIN 51562)
<b>Dynamic viscosity:</b>	No data available.
<b>Other information</b>	
<b>Molecular weight:</b>	76.05 g/mol
<b>Explosive properties:</b>	Not explosive
<b>Oxidizing properties:</b>	The substance or mixture is not classified as oxidizing. UN Test O.2 (oxidizing liquids)
<b>Minimum ignition temperature:</b>	435 °C (DIN 51 794)
<b>Formation of Flammable Gases:</b>	Substance or mixture, which in contact with water, does not emit flammable gas
<b>Metal Corrosion:</b>	Corrosive to metal Classification on the basis of missing data
<b>Peroxides:</b>	The substance or mixture is an organic peroxide

**Product name: Peracetic Acid 5%**

classified as type G.

**10. Stability and reactivity**

<b>Reactivity:</b>	Risk of self-accelerating, exothermic decomposition with the development of oxygen at Effect of thermal energy / heat. Product is a(n) oxidizing agent and reactive.
<b>Chemical Stability:</b>	Stable under recommended storage conditions. Product is supplied in stabilised form. Commercial products are stabilised to reduce risk of decomposition due to contamination.
<b>Possibility of hazardous reactions:</b>	Risk of overpressure and burst due to decomposition in confined spaces and pipes. Risk of decomposition in contact with incompatible substances, impurities, metals, alkalis, reducing agents. Release of oxygen may support combustion.
<b>Conditions to avoid:</b>	sun rays, heat, heat effect
<b>Incompatible Materials:</b>	impurities, decomposition catalysts metals, nonferrous heavy metal, aluminium, zinc. metallic salts, alkalis, reducing agents Possible hazardous reaction: decomposition. Flammable material. Possible hazardous reaction: Spontaneous ignition. Organic solvent. Possible hazardous reaction: Danger of explosion.
<b>Hazardous Decomposition Products:</b>	Steam Oxygen Acetic acid

**11. Toxicological information****Information on likely routes of exposure**

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

**Symptoms related to the physical, chemical and toxicological characteristics**

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

**Information on toxicological effects****Acute toxicity (list all possible routes of exposure)****Oral****Product:** LD 50 (Rat): 1,859 mg/kg peracetic acid 5 %**Dermal****Product:** LD 50 (Rabbit): 1,147 mg/kg peracetic acid 5 %

**Product name: Peracetic Acid 5%**

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**Inhalation**

**Product:** LC 50 (Rat): 4.08 mg/l peracetic acid 5 %, Aerosols

**Repeated dose toxicity**

**Product:** No data available.

**Components:**

Acetic acid  
NOAEL (Rat(male), Oral): 290 mg/kg literature  
NOAEL (Pig, Oral, daily): 450 mg/kg literature

**Skin Corrosion/Irritation**

**Product:** Calculation method Corrosive.

**Serious Eye Damage/Eye Irritation**

**Product:** Rabbit: Causes serious eye damage. peracetic acid 5 %

**Respiratory or Skin Sensitization**

**Product:** Magnussona i Kligmana., OECD 406 (Guinea Pig): Not a skin sensitizer.  
peracetic acid 10 %

**Carcinogenicity**

**Product:** No data available.

**Components:**

Hydrogen peroxide  
Clues to possible carcinogenic effects in animal experiments: Up to date there is no evidence of increased tumour risk. Hydrogen peroxide is not a carcinogenic substance according to MAK, IARC, NTP, OSHA, ACGIH.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogens present or none present in regulated quantities

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogens present or none present in regulated quantities

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

No carcinogens present or none present in regulated quantities

**Germ Cell Mutagenicity**

**In vitro**

**Product:** Ames test (OECD 471): negative peracetic acid 5 %  
In vitro mammalian cell gene mutation test (OECD 476): negative peracetic acid 11 %  
Unscheduled DNA synthesis -test (UDS) (OECD 482): negative peracetic acid 42 %

**In vivo**

**Product:** In vivo micronucleus test (OECD 474) Oral (Mouse, male and female): negative peracetic acid 5 %  
Unscheduled DNA synthesis -test (UDS) (OECD 486) Oral (Rat, male): negative peracetic acid 5 %  
In vivo micronucleus test (OECD 474) Oral (Mouse, male and female): negative peracetic acid 11 %

**Reproductive toxicity**

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product name: Peracetic Acid 5%**

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**Product:** Respiratory tract irritation.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Aspiration Hazard**

**Product:** No data available.

**Other effects:** No data available.

**12. Ecological information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** 98 % (28 d, OECD 301 E) At non-bacteriotoxic concentrations peracetic acid (3 h, OECD 209) peracetic acid

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** low

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** Log Kow: -0.26 20 °C (QSAR) calculated pH 7

**Mobility in soil:** No data available.

**Product name: Peracetic Acid 5%**

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**Other adverse effects:** No data available.

### 13. Disposal considerations

**Disposal methods:** Waste must be disposed of in accordance with local, state, provincial and federal laws and regulations. Empty containers must be handled with care due to product residue.

**Contaminated Packaging:** Rinse empty containers before disposal; recommended cleaning agent: water. Offer rinsed packaging material to local recycling facilities. Do not reuse empty containers and dispose of in accordance with the regulations issued by the appropriate local authorities.

### 14. Transport information

#### Domestic regulation

##### 49 CFR

UN/ID/NA number : UN 3149  
 Proper shipping name : Hydrogen peroxide and peroxyacetic acid mixtures, stabilized

Class : 5.1  
 Subsidiary risk : 8  
 Packing group : II  
 Labels : 5.1 (8)  
 ERG Code : 140  
 Marine pollutant : no  
 Remarks : Protect from thermal radiation.  
 FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity-Regulation!

#### International Regulations

##### IATA-DGR

UN/ID No. : UN 3149  
 Proper shipping name : Hydrogen peroxide and peroxyacetic acid mixture stabilized  
 Class : 5.1  
 Subsidiary risk : 8  
 Packing group : II  
 Labels : 5.1 (8)  
 Packing instruction (cargo aircraft) : 554  
 Packing instruction (passenger aircraft) : 550  
 Remarks : FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity-Regulation!

##### IMDG-Code

UN number : UN 3149  
 Proper shipping name : HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

Class : 5.1  
 Subsidiary risk : 8  
 Packing group : II  
 Labels : 5.1 (8)  
 EmS Code : F-H, S-Q  
 Marine pollutant : yes

**Product name: Peracetic Acid 5%**

Remarks : Protect from heat. Separate from metal powders and permanganates., "Separated from" permanganates and class 4.1., FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity-Regulation!

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**15. Regulatory information****US Federal Regulations****TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

**US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)**

None present or none present in regulated quantities.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended**

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):****Chemical Identity**

ACETIC ACID  
RCRA HAZARDOUS WASTE NO. D003  
SULFURIC ACID

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Hazard categories**

Organic peroxide, Corrosive to metal, Acute toxicity (any route of exposure), Skin Corrosion or Irritation, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure)

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances****Chemical Identity**

Hydrogen peroxide  
Peracetic acid  
sulphuric acid

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

<u>Chemical Identity</u>	<u>% by weight</u>
Peracetic acid	1.0%

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):****Chemical Identity**

Peracetic acid  
sulphuric acid

**Product name: Peracetic Acid 5%**

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

**Chemical Identity**

Acetic acid  
sulphuric acid

**US State Regulations**

**US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.

**US. New Jersey Worker and Community Right-to-Know Act**

**Chemical Identity**

Hydrogen peroxide  
Acetic acid  
Peracetic acid  
sulphuric acid

**US. Massachusetts RTK - Substance List**

**Chemical Identity**

Hydrogen peroxide  
Acetic acid  
Peracetic acid  
sulphuric acid

**US. Pennsylvania RTK - Hazardous Substances**

**Chemical Identity**

Hydrogen peroxide  
Acetic acid  
Peracetic acid

**US. Rhode Island RTK**

**Chemical Identity**

Hydrogen peroxide  
Acetic acid  
Peracetic acid

**16. Other information, including date of preparation or last revision**

**HMIS Hazard ID**

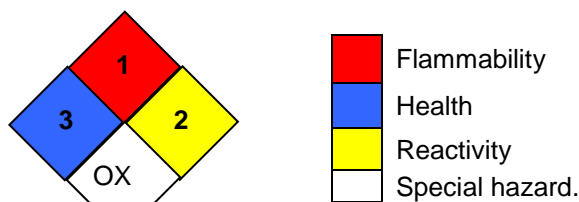
<b>Health</b>		<b>3</b>
<b>Flammability</b>		<b>1</b>
<b>Physical Hazards</b>		<b>2</b>
<b>PERSONAL PROTECTION</b>		

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

**Product name: Peracetic Acid 5%**

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**NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible  
OX: Oxidizing agent

**Issue Date:** 05/11/2020

**Version #:** 1.0

**Further Information:** This chemical may be used as a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label: ----- FIFRA--- Hazards to Humans and Domestic Animals:--- DangerCorrosive CAUSES IRREVERSIBLE EYE DAMAGE AND SKIN BURNS May be fatal if inhaled or absorbed through skin. Harmful if swallowed. ---Physical and Chemical Hazards Strong oxidizing agents. ---Environmental Hazards THIS PESTICIDE IS TOXIC TO BIRDS, FISH, AND AQUATIC INVERTEBRATES

**Revision Information** Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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