



Ready to Use

Noroxycdiff™

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION PRODUCT

NAME: Noroxycdiff™

GENERAL USE: CLEANER, DISINFECTANT, FOOD CONTACT SURFACE SANITIZER, VIRUCIDE*.

MANUFACTURER: Aqua-EZ Inc. 6100 Wheaton Dr, Atlanta, GA 30336

DATE REVISED: 03/01/2017

This version replaces all previous versions.

EMERGENCY TELEPHONE NUMBERS

Poison Center call: (800) 222-1222

2. COMPOSITION / INFORMATION ON INGREDIENTS

The combined ingredients of this product at their given percentages are not considered hazardous to your health.

READY TO USE - Customer Activated Formula

Chemical Name	CAS#	Wt.%	EC No.	EC Class
Peroxyacetic Acid	79-21-0	0.184	201-186-8	O,Xi;R7;S1/2-3/7-1 4-36/37/39-45-61
Hydrogen Peroxide	7722-84-1	0.853	231-765-0	Xn,R22-41;S1/2-3-17-2 6-28-36/37/39-45

Noroxycdiff's Activated Formula is:

- Non-Corrosive
- Non-Fuming
- Dermally Non-Toxic
- Organic

Noroxycdiff's Activation Instructions

Activation of Noroxycdiff's occurs by pouring the entire contents of the Noroxycdiff 4 fl. oz. bottle in a gallon of water to achieve a 99:1 mixed ratio and agitating the combined solution for 15 seconds. Noroxycdiff™ is Ready-to-Use post-Activation.

3. PHYSICAL AND CHEMICAL PROPERTIES

SCENT: Mild

APPEARANCE: Clear

BOILING POINT: 86°C (187°F) at 630 mm Hg

DENSITY / WEIGHT PER VOLUME: 1.044 g/ml or 8.7 lbs/gal

EVAPORATION RATE: Above 1 (Butyl Acetate = 1)

OXIDIZING PROPERTIES: None

pH: 4.5

SOLUBILITY IN WATER: (% by wt. @ 25°C / 77°F): 100

4. TOXICOLOGICAL INFORMATION

TARGET ORGANS: Eyes, skin, nose, throat, lungs

EYE EFFECTS: Moderate, temporary eye irritation

SKIN EFFECTS: Non-irritating

DERMAL LD50: No mortalities or abnormalities > 5000 mg/kg

ORAL LD50: No mortalities or abnormalities > 5000 mg/kg

INHALATION LC50: Inhalation toxicity > 2.01 mg/L

CARCINOGENICITY: No carcinogenic effect in rats or mice.

HMIS HAZARD RATING

Health 1	Flammability 0	Physical Hazard 0	Personal Protection A
Hazard Index: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe			
PERSONAL PROTECTION CODE:			
A=Safety glasses			

5. FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing. Call a poison control center or physician for treatment advice.

6. FIRE FIGHTING MEASURES

FLAMMABLE LIMITS: Not available

SENSITIVITY TO IMPACT: Not available

SENSITIVITY TO STATIC DISCHARGE: Not available

FIRE FIGHTING INFORMATION

Suitable extinguishing media: Use media appropriate for the surrounding fire.

Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

NFPA

Health 0 Flammability 0 Reactivity 0

NFPA = National Fire Protection Association

Degree of Hazard Code:

4 = Extreme 3 = High 2 = Moderate 1 = Slight 0 = Insignificant

7. ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: Control run off and isolate discharged material for proper disposal.

8. HANDLING AND STORAGE

HANDLING: Special ventilation not required.

STORAGE: Store in a cool, dry, well ventilated area. For quality purposes, avoid temperatures above 86° F. higher temperatures will accelerate decomposition resulting in a loss of assay. Do not store in direct sunlight, or near sources of ignition or heat. Use first in, first out storage system.

9. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

Chemical Name	ACGIH TLV	OSHA PEL	ACGIH STEL	ACGIH TWA
Hydrogen Peroxide	1 ppm	1 ppm	15 ppm	10 ppm

10. PERSONAL PROTECTIVE EQUIPMENT

EYES PROTECTION: Use approved safety eye wear.

SKIN PROTECTION: Wear neoprene or rubber gloves to prevent skin contact if prolonged skin contact is likely.

PROTECTIVE CLOTHING: Not required.

RESPIRATORY PROTECTION: Protective face mask is recommended.

GLOVES: Wear protective gloves.

11. STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS: None

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: This product decomposes naturally. Peracetic acid is completely miscible with water.

Aqueous solutions of peracetic acid hydrolyze to acetic acid and hydrogen peroxide. When this product contacts soil the peracetic acid and hydrogen peroxide are completely decomposed to water, acetic acid and oxygen within 20 minutes. This decomposition is accelerated by the naturally occurring transition metal components in the soil.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Discharge into a suitable treatment system in accordance with local, state and federal governmental agencies.

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

Domestic (Land, D.O.T.)

Proper Shipping Name: Not regulated (not classified as a Dangerous Goods material)

Hazard Class: Not applicable

UN/NA: Not applicable

Packing Group: Not applicable

International (Water, I.M.O.)

Proper Shipping Name: Not regulated (not classified as a Dangerous Goods material) **Hazard Class:** Not applicable

UN/NA: Not applicable

Packing Group: Not applicable

International (Air, I.C.A.O.)

Proper Shipping Name: Not regulated (not classified as a Dangerous Goods material) **Hazard Class:** Not applicable

UN/NA: Not applicable

Packing Group: Not applicable

16. Further information

Data for the production of the safety data sheet from the studies available and from the literature. Further information about the characteristics of the product can be found in the product code of practice or in the product brochure .

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. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



Concentrated Formula

Noroxycdiff™

SAFETY DATA SHEET

1. Identification

Product identifier Noroxycdiff

Other means of identification

Product registration number 10324-214-92089

Recommended use FIFRA Regulated End Use Product

Recommended restrictions (EUP) None known.

Manufacturer information

Company name Aqua-EZ Inc.
Address 6100 Wheaton Dr,
Atlanta, GA 30336

Telephone 404-381-2022

Distributor information

PreVasive USA, LLC.
3643 Explorer Trail
Oakwood, GA 30566
United States
1-855-966-6772

Emergency phone number CHEMTREC International: 1-703-527-3887
CHEMTREC USA: 1-800-424-9300

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 4
	Organic peroxides	Type F
Health hazards	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 1B
	Serious eye damage/eye irritation	Category 1
OSHA defined hazards	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	Not classified.	

Label elements



Signal word Danger

Hazard statement Combustible liquid. Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. May cause respiratory irritation.

Precautionary statement

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. In case of fire: Use appropriate media to extinguish.

Storage Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

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

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Environmental hazards Hazardous to the aquatic environment, acute hazard Category 1

Hazardous to the aquatic environment, long-term hazard Category 2

Hazard(s) not otherwise classified (HNOC) Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Supplemental information 7% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Hydrogen Peroxide		7722-84-1	20 - < 30
Acetic Acid		64-19-7	5 - < 10
Peracetic Acid		79-21-0	5 - < 10
Etidronic Acid		2809-21-4	1 - < 3
Sulfuric Acid		7664-93-9	< 1
Other components below reportable levels			50 - < 60

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.

Indication of immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards Combustible liquid.

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

TO NEUTRALIZE SPILL:
Add sodium carbonate (soda ash) at a rate of 1-3 pounds for each gallon of concentrated solution.

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

IF CONTAMINATION OCCURS:
The drum or container may be hot to the touch. Cool the drum with water if possible. Excessive bubbles may be present in the liquid. Move the drum to an outside location or ventilated area to prevent exposure damage. If possible, dilute the concentrated product within the drum or container. Be aware that heat may be generated during this process.

Environmental precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

7. Handling and storage

Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. Keep away from clothing and other combustible materials. Keep away from heat, sparks and open flame. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Keep only in the original container. Store in a well-ventilated place. Store away from other materials. Keep in an area equipped with sprinklers. DO NOT allow the concentrated solution to contact any metals other than stainless steel. Preferred materials are plastics such as polypropylene, PVC, polyethylene, Kynar and PTFE. DO NOT allow galvanized metal, copper, iron, steel or brass to come in contact with the concentrated solution. DO NOT place anything into the concentrated drum that is not new in order to avoid contamination and unwanted reaction. DO NOT return unused solution back into the drum. DO NOT store the product in direct sunlight.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)		
Components	Type	Value
Acetic Acid (CAS 64-19-7)	PEL	25 mg/m3
		10 ppm
Hydrogen Peroxide (CAS 7722-84-1)	PEL	1.4 mg/m3
		1 ppm
Sulfuric Acid (CAS 7664-93-9)	PEL	1 mg/m3

US. ACGIH Threshold Limit Values				
Components	Type	Value	Form	
Acetic Acid (CAS 64-19-7)	STEL	15 ppm	Inhalable fraction and vapor. Thoracic fraction.	
	TWA	10 ppm		
Hydrogen Peroxide (CAS 7722-84-1)	TWA	1 ppm		
Peracetic Acid (CAS 79-21-0)	STEL	0.4 ppm		
Sulfuric Acid (CAS 7664-93-9)	TWA	0.2 mg/m3		
US. NIOSH: Pocket Guide to Chemical Hazards				
Components	Type	Value		
Acetic Acid (CAS 64-19-7)	STEL	37 mg/m3		
	TWA	15 ppm		
		25 mg/m3		
Hydrogen Peroxide (CAS 7722-84-1)	TWA	10 ppm		
		1.4 mg/m3		
		1 ppm		
Sulfuric Acid (CAS 7664-93-9)	TWA	1 mg/m3		
Biological limit values		No biological exposure limits noted for the ingredient(s).		
Appropriate engineering controls		Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.		
Individual protection measures, such as personal protective equipment				
Eye/face protection		Wear safety glasses with side shields (or goggles) and a face shield.		
Skin protection				
Hand protection		Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.		
Other		Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.		
Respiratory protection		If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Chemical respirator with organic vapor cartridge.		
Thermal hazards		Wear appropriate thermal protective clothing, when necessary.		
General hygiene considerations		When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		
9. Physical and chemical properties				
Appearance				
Physical state		Liquid.		
Form		Liquid.		
Color		Colorless		
Odor		Pungent Vinegar		
Odor threshold		Not available.		
pH		> 1		
Melting point/freezing point		Not available.		
Initial boiling point and boiling range		212 °F (100 °C)		
Flash point		181.4 °F (83.0 °C)		
Evaporation rate		Not available.		
Flammability (solid, gas)		Not applicable.		

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	22 mm Hg @ 25 deg C
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Miscible
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Specific gravity	1.1 @ 25 deg C
VOC (Weight %)	7 % estimated

10. Stability and reactivity

Reactivity	Reacts violently with strong alkaline substances. This product may react with reducing agents.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Do not mix with other chemicals. Contact with incompatible materials.
Incompatible materials	Bases. Strong oxidizing agents. Reducing agents.
Hazardous decomposition products	Toxic gas.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes severe skin burns.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns. Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.

Information on toxicological effects

Acute toxicity	In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and central nervous system effects. Harmful if swallowed. May cause respiratory irritation.
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Components	Species	Test Results
Acetic Acid (CAS 64-19-7)		
Acute Oral		
LD50	Rat	3310 mg/kg
Etidronic Acid (CAS 2809-21-4)		
Acute Dermal		
LD50	Rabbit	> 10000 mg/kg

Components	Species	Test Results
Oral		
LD50	Rat	3130 mg/kg
Hydrogen Peroxide (CAS 7722-84-1)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	> 170 mg/m3, 4 h
Oral		
LD50	Rat	1193 - 1270 mg/kg
Peracetic Acid (CAS 79-21-0)		
Acute		
Dermal		
	Rabbit	1147 mg/kg
Inhalation		
	Mouse	204 mg/m³, 4 h
Oral		
	Rat	1656 mg/kg
Sulfuric Acid (CAS 7664-93-9)		
Acute		
Inhalation		
LC50	Rat	375 mg/m3, 4 h
Oral		
LD50	Rat	2140 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory or skin sensitization	
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Risk of cancer cannot be excluded with prolonged exposure. IARC has concluded that "occupational exposure to strong inorganic mists containing sulfuric acid is carcinogenic for humans (Group 1)".

IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrogen Peroxide (CAS 7722-84-1)	3 Not classifiable as to carcinogenicity to humans.
Sulfuric Acid (CAS 7664-93-9)	1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Sulfuric Acid (CAS 7664-93-9)	Known To Be Human Carcinogen.
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Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	May cause respiratory irritation.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Components		Species	Test Results
Acetic Acid (CAS 64-19-7)			
Aquatic			
Acute			
Algae	EC50	Algae	> 1000 mg/l, 72 h
Crustacea	EC50	Daphnia	> 1000 mg/l, 48 h
Fish	LC50	Oncorhynchus mykiss	> 1000 mg/l, 96 h
Etidronic Acid (CAS 2809-21-4)			
Aquatic			
Acute			
Algae	EC50	Algae	7.23 mg/l, 96 h
Crustacea	EC50	Daphnia	527 mg/l, 48 h
Fish	LC50	Oncorhynchus mykiss	195 mg/l, 96 h
Chronic			
Algae	NOEC	Algae	13 mg/l, 14 d
Crustacea	NOEC	Daphnia	6.75 mg/l, 28 d
Hydrogen Peroxide (CAS 7722-84-1)			
Aquatic			
Acute			
Algae	EC50	Algae	1.38 mg/l, 72 h
Crustacea	LC50	Daphnia	2.4 mg/l, 48 h
Fish	LC50	Fathead minnow (Pimephales promelas)	16.4 mg/l, 96 h
Chronic			
Crustacea	NOEC	Daphnia	0.63 mg/l, 21 d
Peracetic Acid (CAS 79-21-0)			
Aquatic			
Acute			
Algae	EC50	Algae	0.16 mg/l, 72 h
Crustacea	EC50	Daphnia	0.73 mg/l, 48 h
Fish	LC50	Bluegill (Lepomis macrochirus)	1.1 mg/l, 96 h
Chronic			
Crustacea	NOEC	Daphnia	0.08 mg/l, 21 d
Fish	NOEC	Fish	0.0022 mg/l, 33 d
Sulfuric Acid (CAS 7664-93-9)			
Aquatic			
Acute			
Algae	EC50	Algae	> 100 mg/l, 72 h
Crustacea	EC50	Daphnia	> 100 mg/l, 48 h
Fish	LC50	Bluegill (Lepomis macrochirus)	16 - 28 mg/l, 96 h
Chronic			
Crustacea	NOEC	Daphnia	0.15 mg/l, 35 d
Fish	NOEC	Fish	0.025 mg/l, 65 d

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

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Partition coefficient n-octanol / water (log Kow)

Acetic Acid -0.17

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number	UN3109
UN proper shipping name	Organic peroxide type F, liquid (Peroxyacetic acid, type F, stabilized)
Transport hazard class(es)	
Class	5.2
Subsidiary risk	8
Label(s)	5.2
Packing group	II
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IP5
Packaging exceptions	152
Packaging non bulk	225
Packaging bulk	225
ERG number	145

IATA

UN number	UN3109
UN proper shipping name	Organic peroxide type F, liquid (Peroxyacetic acid, type F, stabilized)
Transport hazard class(es)	
Class	5.2
Subsidiary risk	8
Packing group	II
Environmental hazards	No.
ERG Code	5L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.

IMDG

UN number	UN3109
UN proper shipping name	ORGANIC PEROXIDE TYPE F, LIQUID (PEROXYACETIC ACID, TYPE F, STABILIZED)
Transport hazard class(es)	
Class	5.2
Subsidiary risk	8
Packing group	II
Environmental hazards	
Marine pollutant	No.
Ems	F-J, S-R
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

Material name: Noroxycdiff
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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
DOT

Not established.



IATA



IMDG



Noroxycdiff Concentrate Packaging, Shipping and Storage:

The specially designed Bottle and Case Configuration utilized for shipping the NOROxycdiff Concentrate;(4) 4-Ounce Pre-Measured Vented-Cap Bottles, allow PreVasive to ship our product without the necessity of Hazard DOT shipping requirements and is non-flammable. The packaging has a no HAZARD shipping designation due to the small quantity per case and specially designed bottle. Sufficient quantities are not packaged to create a flammable Shipping & Storage characteristic.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetic Acid (CAS 64-19-7)	Listed.
Peracetic Acid (CAS 79-21-0)	Listed.
Sulfuric Acid (CAS 7664-93-9)	Listed.

SARA 304 Emergency release notification

Hydrogen Peroxide (CAS 7722-84-1)	1000 LBS
Peracetic Acid (CAS 79-21-0)	500 LBS
Sulfuric Acid (CAS 7664-93-9)	1000 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Hydrogen Peroxide	7722-84-1	1000	1000 lbs		
Peracetic Acid	79-21-0	500	500 lbs		
Sulfuric Acid	7664-93-9	1000	1000 lbs		

SARA 311/312 Hazardous chemical

No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Peracetic Acid	79-21-0	5 - < 10
Sulfuric Acid	7664-93-9	< 1

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Peracetic Acid (CAS 79-21-0)
Sulfuric Acid (CAS 7664-93-9)

Safe Drinking Water Act (SDWA)

Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Sulfuric Acid (CAS 7664-93-9) 6552

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Sulfuric Acid (CAS 7664-93-9) 20 %WV

DEA Exempt Chemical Mixtures Code Number

Sulfuric Acid (CAS 7664-93-9) 6552

FIFRA Information

This chemical is 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. Listed below is the hazard information as required on the pesticide label.

Signal word

DANGER
KEEP OUT OF REACH OF CHILDREN

Hazard statement

CORROSIVE. Causes irreversible eye damage and skin burns. Harmful if swallowed. May be fatal if inhaled. Do not get into eyes, on skin or on clothing. Do not breathe vapors or spray mist.

US state regulations

- US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)
Not listed.
- US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))
Sulfuric Acid (CAS 7664-93-9)
- US. Massachusetts RTK - Substance List
Acetic Acid (CAS 64-19-7)
Hydrogen Peroxide (CAS 7722-84-1)
Peracetic Acid (CAS 79-21-0)
Sulfuric Acid (CAS 7664-93-9)
- US. New Jersey Worker and Community Right-to-Know Act
Acetic Acid (CAS 64-19-7)
Hydrogen Peroxide (CAS 7722-84-1)
Peracetic Acid (CAS 79-21-0)
Sulfuric Acid (CAS 7664-93-9)
- US. Pennsylvania Worker and Community Right-to-Know Law
Acetic Acid (CAS 64-19-7)
Hydrogen Peroxide (CAS 7722-84-1)
Peracetic Acid (CAS 79-21-0)
Sulfuric Acid (CAS 7664-93-9)
- US. Rhode Island RTK
Acetic Acid (CAS 64-19-7) Hydrogen Peroxide (CAS 7722-84-1) Peracetic Acid (CAS 79-21-0) Sulfuric Acid (CAS 7664-93-9)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue date	05-28-2015
Revision date	06-07-2017
Version #	02
NFPA ratings	Health: 3 Flammability: 2 Instability: 0
Disclaimer	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. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision Information	Accidental release measures: Methods and materials for containment and cleaning up Handling and storage: Conditions for safe storage, including any incompatibilities