

Section 1. Identification

Product name : **Noroxydiff** **Code : 5357**

EPA Registration No. : **91628-5-92089**

Recommended use : **Antimicrobial solution**

Restrictions on use : For professional use only.

Distributor : **PreVasive USA, LLC** **Emergency phone** : **Carechem 24** : 1-215-207-0061
 176 Enterprise Dr, #2 **(24 hour service)** toll free : 1-866-928-0789
 Pendergrass, GA 30567
 United States of America
 info@prevasive.com / prevasive.com

Section 2. Hazard identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Product classification : OXIDIZING LIQUIDS - Category 2
 ORGANIC PEROXIDES - Type F
 CORROSIVE TO METALS - Category 1
 ACUTE TOXICITY (oral) - Category 4
 SKIN CORROSION - Category 1
 SERIOUS EYE DAMAGE - Category 1
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) -Category 3



Signal word : Danger

Hazard statements : Heating may cause a fire.
 May intensify fire; oxidizer.
 May be corrosive to metals.
 Harmful if swallowed.
 Causes severe skin burns and eye damage.
 May cause respiratory irritation.

Precautionary statements

General : Keep out of reach of children.

Prevention : Wear protective gloves, protective clothing, and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Keep only in original packaging. Use only in a well-ventilated area. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

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

Storage : Store locked up. Protect from sunlight. Store at temperatures not exceeding 30 °C/86 °F. Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store separately.

Disposal : Dispose of contents and container in a waste disposal facility, in accordance with all local, regional and national regulations.

Other hazards : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Hazardous ingredients	CAS number	Concentration* %
- Hydrogen peroxide	7722-84-1	15 - 30
- Acetic acid	64-19-7	5 - 10
- Peracetic acid	79-21-0	5 - 10
- Etidronic acid	2809-21-4	1 - 5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

* Any concentration shown as a range is to protect confidentiality.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Skin contact	: Get medical attention immediately. Rinse immediately contaminated clothing and skin with plenty of water. Wash contaminated skin with soap and water. Continue to rinse for at least 10 minutes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Remove person to fresh air and keep comfortable for breathing. Maintain an open airway. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Ingestion	: Get medical attention immediately. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel.
Notes to medical doctor	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in section 2 and/or in section 11 of this safety data sheet.

Section 5. Fire-fighting measures

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical

Runoff to sewer may create fire or explosion hazard. Oxidizing material. This material increases the risk of fire and may aid combustion. Heating may cause a fire. May intensify fire. May re-ignite itself after fire is extinguished. Hazardous decomposition may occur. In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide carbon monoxide

Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or spray. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid contamination with reactive substances. Dilute with water and mop up if water-soluble. Do not absorb in sawdust or other combustible material. It may lead to a fire risk when it dries out. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Put on appropriate personal protective equipment. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or spray. Wash hands thoroughly after handling. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Keep away from clothing, incompatible materials and combustible materials. Keep away from alkalis. Temperature control may be required. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage. Manipulate with care, avoid splashes.

Conditions for safe storage, including any incompatibilities

To avoid the risk of formation of shock-sensitive crystals or loss of stability, it is important to store the product within the recommended temperature range. Temperature control may be required. Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store at temperatures not exceeding 30 °C/86 °F. Store in a corrosion resistant container with a resistant inner liner. Store locked up. Eliminate all ignition sources. Separate from alkalis. Separate from reducing agents and combustible materials. Store away from grease and oil. Keep away from metals. Keep away from rust, iron and copper. Prevent product contamination. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Hazardous ingredients	CAS number	Exposure limit values
- Hydrogen peroxide	7722-84-1	ACGIH TLV (United States) TWA 8 hours: 1,4 mg/m ³ . TWA 8 hours: 1 ppm.
- Acetic acid	64-19-7	ACGIH TLV (United States) TWA: 25 mg/m ³ . STEL: 37 mg/m ³ .
- Peracetic acid	79-21-0	ACGIH TLV (United States) STEL: 1,24 mg/m ³ . STEL: 0,4 ppm.

Appropriate engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. Use with adequate ventilation.

Personal protective equipment

Eye/face	: Wear eye protection against chemical splashes.
Hands	: Wear chemical-resistant, impervious gloves.
Respiratory	: Wear appropriate respirator when ventilation is inadequate. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Other Hygiene	: Wear appropriate protective clothing to prevent skin contact.

measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Section 9. Physical and chemical properties

pH	: <1	Physical state	: Liquid. [Transparent liquid.]
Relative density	: 1,13	Color	: Colorless.
Odor threshold Boiling point	: Not available.	Odor	: Pungent vinegar odor
Melting/freezing point	: Not available.		
Vapor pressure Relative vapor density Solubility	: Not available.		
Flash point	: Not available.		
Viscosity	: Closed cup: >100°C (>212°F) [Product does not sustain combustion.]		
Evaporation rate	: Kinematic: Not available.		
Flammability (solid, gas)	: >1 (butyl acetate = 1)		
Flammable limits	: Not available.		

Partition coefficient n-octanol/water (log Pow) : Not applicable.
 Auto-ignition temperature : Not available.
 Decomposition temperature : Not available.
 Particle characteristics : Not applicable.

Section 10. Stability and reactivity

Reactivity : This product, in laboratory testing, neither detonates in the cavitated state nor deflagrates and only shows a low or no effect when heated under confinement, as well as low or no explosive power.
Chemical stability : The product may not be stable under certain conditions of storage or use.
Possibility of hazardous reactions : Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following: temperature increase contact with combustible materials high temperature Reactions may include the following: hazardous decomposition risk of causing or intensifying fire
Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Avoid increased storage temperature. Drying on clothing or other combustible materials may cause fire. Keep away from heat and direct sunlight.
Incompatible materials : Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis combustible materials reducing materials copper iron rust metals
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Likely routes of exposure : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Eye contact : Causes serious eye damage.
Skin contact : Causes severe burns.
Inhalation : May cause respiratory irritation. The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.
Ingestion : May cause burns to mouth, throat and stomach. Harmful if swallowed.

Potentials symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Pain, watering, redness
Skin contact : Pain or irritation, redness, blistering may occur
Inhalation : Adverse symptoms may include the following: respiratory tract irritation, coughing
Ingestion : Stomach pains

Potential chronic health effects

Carcinogenic Effects : No known significant effects or critical hazards.
Mutagenic Effects : No known significant effects or critical hazards.
Teratogenic Effects : No known significant effects or critical hazards.
Reproductive effects : No known significant effects or critical hazards.
Sensitizer : No known significant effects or critical hazards.

Numerical measures of acute toxicity

Hazardous ingredients	Species	Result	Dose
- Hydrogen peroxide	Rat	LC50 Inhalation Vapor	11 mg/l
	Rabbit	LD50 Dermal	>2000 mg/kg
- Acetic acid	Rat	LD50 Oral	1193 mg/kg
	Rat	LD50 Dermal	1060 mg/kg
	Mouse	LD50 Oral	4960 mg/kg
- Etidronic acid	Rat	LD50 Oral	3310 mg/kg
	Rat	LD50 Oral	2400 mg/kg

Section 12. Ecological information

Ecotoxicity : This material is toxic to aquatic life.

Aquatic ecotoxicity:

Hazardous ingredients	Result	Species	Exposure
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- Hydrogen peroxide	Acute NOEC 0,63 mg/l	Algae	72 hours
	Acute NOEC 0,63 mg/l	Daphnia	21 days
- Acetic acid	Acute EC50 65 mg/l	Daphnia	48 hours
	Acute LC50 75 to 79 mg/l	Fish	96 hours
- Etidronic acid	Acute EC50 3 mg/l Acute	Algae	96 hours
	EC50 527 mg/l Acute	Daphnia	48 hours
	LC50 368 mg/l	Fish	96 hours

Persistence and degradability



Not available.

Section 13. Disposal considerations

Waste handling and disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Reg. info.	UN #	Proper shipping name	Class	Packing group	Label
DOT Classification	UN3109	ORGANIC PEROXIDE TYPE F, LIQUID (Peroxyacetic acid, type F, stabilized)	5.2 (8)	-	 

Marine pollutant (DOT) : Yes. - Peracetic acid

Additional information (DOT) : This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.
Remarks Limited quantity in 125 mL (4.22 ounces) or less.

Reportable quantity (DOT) : Not applicable.

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

Classification of this product and the SDS have been made in accordance with OSHA Hazard Communication Standard (29 CFR 1910.1200) in force in the United States of America. This product is a mixture for which no specific health effects data exist. The risks have therefore been evaluated based on the physicochemical properties of the product and its composition and may be overestimated.

Food contact : Food Industry Compliant.

US inventory (TSCA 8b) : All components are listed, exempted or

SARA 302/304 Components	notified.	CAS #	%	EHS	SARA 302 TPQ (lbs)	SARA 304 RQ (lbs)
- Hydrogen peroxide		7722-84-1	15 - 30	Yes.	1000	1000
- Peracetic acid		79-21-0	5 - 10	Yes.	500	500

SARA 313 Components

The following substances are subject to reporting levels established by SARA Title III, section 313 :

- Peracetic acid	79-21-0
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State regulations

Massachusetts : The following components are listed: - Hydrogen peroxide; - Acetic acid; - Peracetic

New York acid : The following components are listed: - Acetic acid; - Peracetic acid

New Jersey : The following components are listed: - Hydrogen peroxide; - Acetic acid; - Peracetic

Pennsylvania acid : The following components are listed: - Hydrogen peroxide; - Acetic acid; - Peracetic

California Prop. 65 acid

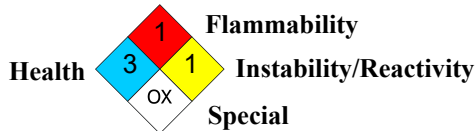
This product does not require a Safe Harbor warning under California Prop. 65.

Section 16. Other information**Hazardous Material Information System (U.S.A.)**

Health	/	3
Flammability		1
Physical hazards		1
Personal protection		¥

¥ The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

National Fire Protection Association (U.S.A.)

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to reader

The information provided in this Safety Data Sheet has been compiled from our experience and data presented in various technical publications. The information contained herein is based on the state of our current knowledge of the product concerned. It is the user's responsibility to verify the value of this information for the adoption of required safety measures. We reserve the right to revise Safety Data Sheets from time to time as new technical information becomes available. The user has the responsibility to contact the company to make sure that the Safety Data Sheet he owns is the last published.

Prepared by : Department of Regulatory Affairs of Kersia North America.

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