

Section 15. Regulatory information

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
tris(2-butoxyethyl) phosphate	≥1 - <3	No.	No.	No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	2-(2-ethoxyethoxy)ethanol	111-90-0	≥5 - <10
Supplier notification	2-(2-ethoxyethoxy)ethanol	111-90-0	≥5 - <10

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

- Massachusetts** : None of the components are listed.
New York : None of the components are listed.
New Jersey : The following components are listed: GLYCOL ETHERS
Pennsylvania : The following components are listed: GLYCOL ETHERS

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

- Australia** : Not determined.
Canada : Not determined.
China : Not determined.
Europe : Not determined.
Japan : Not determined.

Section 15. Regulatory information

Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.

Section 16. Other information

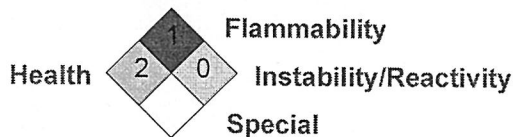
Hazardous Material Information System (U.S.A.)

Health	2
Flammability	1
Physical hazards	0

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 are not required on SDSs 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 mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

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



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification
Not classified.	

History

Date of printing	: 3/17/2015.
Date of issue/Date of revision	: 3/17/2015.
Date of previous issue	: No previous validation.
Version	: 0.01

Section 16. Other information

to abbreviations

: ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

References

: Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



SAFETY DATA SHEET

Page : 1

Revised edition no : 3

Date : 17 / 3 / 2015

Supersedes : 6 / 11 / 2014

LINPOL GREEN AD

0202899**Produced by**

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Gorham , Maine 04038
United States of America
tél : 0 877 854 0072
fax : 0 207 856 0001
In case of emergency : Info Trac 1-800-535-5053

SECTION 1. Identification of the substance/mixture and of the company/undertaking

Identification of the product : Liquid.
Use : Industrial and institutional detergent
See product bulletin for detailed information.
Company identification : See distributor.
Name and function of the responsible person : adress email : msds@pollet.eu
tél 0032 69 553 893 or 883
Laboratory of Pollet S.A.

SECTION 2 Hazards identification**2.1. Classification of the substance or mixture****Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)**

H315 - Causes skin irritation
H319 - Causes serious eye irritation

2.2. Label elements**Labelling Regulation EC 1272/2008 (CLP)**

• Hazard pictograms



• Hazard pictograms : SGH07
• Signal words : Warning
• Hazard statements : H315 - Causes skin irritation
H319 - Causes serious eye irritation

• Precautionary statements

Prevention : P337+P313 - If eye irritation persists: Get medical advice/attention
P 280 - Wear protective gloves, eye protection

2.3. Other hazards

Other hazards : None under normal conditions.

SECTION 3 Composition/information on ingredients**3.1./3.2. Substance / Preparation**

Substance / Preparation : Preparation.

This product is considered to be hazardous and contains hazardous components.

Substance name	Contents	CAS No	EC No	Index No	REACH	Classification
Fatty acid of vegetable oil(C14-C22) potassic salt	> 5 <= 15 %	61788-65-6	262-993-9	----	----	Xi; R36/38 ----- Eye Irrit. 2;H319 Skin Irrit. 2;H315
Fatty acid (C12-C14) potassic salt	> 5 <= 15 %	61789-30-8	----	----	----	Xi; R36/38 ----- Eye Irrit. 2;H319 Skin Irrit. 2;H315

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SECTION 3 Composition/information on ingredients (continued)

Composition of detergents : 15% - 30% : - Soap
Perfumes

SECTION 4. First aid measures

- Skin contact : Rinse immediately with plenty of water. Seek medical attention if irritation develops.
- Eye contact : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion : Rinse mouth. Seek medical advice.

SECTION 5. Firefighting measures

- Extinguishing media**
- Suitable extinguishing media : Carbon dioxide.
Dry chemical.
Water spray.
 - Unsuitable extinguishing media : Use of heavy stream of water may spread fire.
- Flammable class** : Not flammable.
- Protection against fire** : Wear proper protective equipment.
- Special procedures** : Exercise caution when fighting any chemical fire.

SECTION 6. Accidental release measures

- Personal precautions** : Spill area may be slippery.
Equip cleanup crew with proper protection.
- Environmental precautions** : Prevent entry to sewers and public waters.
Does not disturb the water treatment stations.
- Clean up methods** : Clean up any spills as soon as possible, using an absorbent material to collect it.
Use suitable disposal containers.
Flush with plenty of water.

SECTION 7. Handling and storage

- Handling** : Handle with good industrial hygiene and safety procedures.
Ensure prompt removal from eyes, skin and clothing.
Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
- General** : Avoid all unnecessary exposure.
- Storage** : Keep container closed when not in use.
Store at room temperature.

SECTION 8. Exposure controls/personal protection

- Personal protection**
- Hand protection : In case of repeated or prolonged contact wear gloves.
 - Eye protection : Chemical goggles or safety glasses.
 - Ingestion : When using, do not eat, drink or smoke.

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SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1.a. Appearance

Appearance : Liquid.
Colour : Slightly yellow.

9.1.b. Odour

Odour : Citronella

9.1.d. pH

pH value (concentrated product) : > 12.5
pH value in distilled water : 10 +/- 0.5

9.1.m. Relative density

Density [kg/m³] : 1017 +/- 5

9.1.n. Solubility

Solubility in water : Complete.

9.1.r. Viscosity

Viscosity at 20°C [mPa.s] : 15 - 40

9.2. Other information

Other data : See Heading : Information on ingredients.

SECTION 10. Stability and reactivity

Hazardous reactions : None under normal conditions.
Materials to avoid : Do not mix with other product.
Acids.
Oxidizing agent.
Hazardous decomposition products : None under normal conditions.
Hazardous properties : None under normal conditions.

SECTION 11. Toxicological information

On product : No data available.

SECTION 12. Ecological information

On product : product replying to the EU Ecolabel as all-purpose cleaner (2011/383/UE)
On ingredients : The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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SECTION 13. Disposal considerations

General : Dispose in a safe manner in accordance with local/national regulations.
The product at use concentration may be flushed in a sewer.

SECTION 14. Transport information

General information : Not regulated.

SECTION 15. Regulatory information

EC Labelling

France : Tableaux des maladies professionnelles prévus à l'article R, 461-3 du code du travail

Chart of occupational diseases, according to French Labor Code : not applicable

Other : N° douanier/custom duties N°:34012090

Ensure all national/local regulations are observed.

EC Classification : Xi; R36/38

Symbol(s) : Xi : Irritant

R Phrase(s) : R36/38 : Irritating to eyes and skin.

S Phrase(s) : S2 : Keep out of the reach of children.
S50 : Do not mix with other product.

SECTION 16. Other information

R sentences relative to raw materials mentioned in section 3 : R36/38 : Irritating to eyes and skin.

Print date : 8 / 5 / 2015

The contents and format of this SDS are in accordance with REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

The information in this SDS was either obtained from measurements either calculated or retrieved from sources which we believe to be reliable. However, we cannot guarantee the completeness and absence of errors concerning the information supplied by external sources. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

End of document

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Lonza Disinfectant Wipes Plus

Version 0.0

MSDS Number: 000000014173

Revision Date: 0000.00.00

SECTION 1. IDENTIFICATION

Product name : Lonza Disinfectant Wipes Plus

Product code : 000000014173

Manufacturer or supplier's detailsCompany : **Lonza Inc.**
90 Boroline Road
Allendale, NJ 07401
USA
Business Telephone 1-201-316-9200**Lonza Inc.**
1200 Bluegrass Lakes Pkwy
Alpharetta, GA 30004
USA
Business Telephone 1-678-624-5800

E-mail address : prodinfo@lonza.com

Emergency telephone number : +41 61 313 94 94 (24h)

For US only CHEMTREC 1-800-424-9300

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Not a hazardous substance or mixture according to US Regulation 29 CFR 1910.1200 (HazCom2012).

GHS Label element

Not a hazardous substance or mixture according to US Regulation 29 CFR 1910.1200 (HazCom2012).

Precautionary statements

: **Storage:**P402 + P404 Store in a dry place. Store in a closed container.
P410 + P403 Protect from sunlight. Store in a well-ventilated
place.**Disposal:**P501 Dispose of contents/container in accordance with local regu-
lation.**Other hazards**

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Hazardous components**

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

Ref. 53139.1 / 000000014173

Lonza Disinfectant Wipes Plus

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If inhaled	:	No special precautions required.
In case of skin contact	:	After contact with skin, wash immediately with plenty of soap and water. If skin irritation persists, call a physician.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist.
If swallowed	:	If swallowed, do not induce vomiting - seek medical advice. Immediately give large quantities of water to drink. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	No information available.
Notes to physician	:	No information available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Dry powder Water spray Foam
Specific hazards during firefighting	:	Heating or fire can release toxic gas.
Further information	:	Use water spray to cool unopened containers.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	
Environmental precautions	:	
General advice	:	Prevent product from entering drains.
Methods and materials for containment and cleaning up	:	Sweep up or vacuum up spillage and collect in suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	No special precautions required.
Conditions for safe storage	:	Keep container tightly closed and dry.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

Appropriate engineering controls**Personal protective equipment**

Respiratory protection	:	No personal respiratory protective equipment normally required.
Hand protection		
Remarks	:	Handle in accordance with good industrial hygiene and safety practice.
Eye protection	:	Handle in accordance with good industrial hygiene and safety practice.
Skin and body protection	:	No special protective equipment required.
Hygiene measures	:	Avoid contact with eyes. Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	aqueous solution, sheets, woven fabric
Colour	:	colourless
Odour	:	Varies with fragrance added
Odour Threshold	:	no data available
pH	:	10.5 - 12
Melting point/range	:	not determined
Boiling point/boiling range	:	not determined
Flash point	:	> 93.34 °C
Evaporation rate	:	no data available
Upper explosion limit	:	
Lower explosion limit	:	
Vapour pressure	:	no data available
Relative vapour density	:	no data available
Relative density	:	no data available
Solubility(ies)		

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Water solubility	:	soluble
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	no data available
Decomposition temperature	:	no data available
Viscosity, dynamic	:	
Viscosity, kinematic	:	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	None known. Stable
Conditions to avoid	:	None known.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	Thermal decomposition can lead to release of irritating gases and vapours.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Eyes Skin Ingestion Inhalation
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Skin corrosion/irritation

Skin irritation	:	non irritant
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Serious eye damage/eye irritation

Eye irritation	:	non irritant
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Carcinogenicity

IARC		No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
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OSHA		No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
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NTP		No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen
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by NTP.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Further information

Remarks: Information given is based on data obtained from similar substances.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity**

no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

Additional ecological information : No data is available on the product itself.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION**IATA**

Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable
Environmental hazards : no

IMDG

Not dangerous goods

UN number : Not applicable
Proper shipping name : Not applicable
Transport hazard class : Not applicable
Packing group : Not applicable
Environmental hazards : Marine pollutant: no

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ADR : Not dangerous goods

UN number : Not applicable
 Proper shipping name : Not applicable
 Transport hazard class : Not applicable
 Packing group : Not applicable
 Environmental hazards : no

RID : Not dangerous goods

UN number : Not applicable
 Proper shipping name : Not applicable
 Transport hazard class : Not applicable
 Packing group : Not applicable
 Environmental hazards : no

DOT : Not dangerous goods

UN number : Not applicable
 Proper shipping name : Not applicable
 Transport hazard class : Not applicable
 Packing group : Not applicable
 Environmental hazards : no

TDG : Not dangerous goods

UN number : Not applicable
 Proper shipping name : Not applicable
 Transport hazard class : Not applicable
 Packing group : Not applicable
 Environmental hazards : no

Special precautions for user : none

Transport in bulk according to An-
 nex II of MARPOL 73/78 and the IBC
 Code : Not applicable

SECTION 15. REGULATORY INFORMATION

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals.

Signal word : CAUTION!
 Hazard statements : Causes moderate eye irritation.
 EPA No. : 6836-336

EPCRA - Emergency Planning and Community Right-to-Know Act

SAFETY DATA SHEET



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Revision Date: 0000.00.00

SARA 311/312 Hazards : No SARA Hazards

SARA 302

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

SARA 313

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.

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

No components are subject to the Pennsylvania Right to know act

New Jersey Right To Know

No components are subject to the New Jersey Right to know act

SECTION 16. OTHER INFORMATION

Revision Date : 0000.00.00

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.



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EMERGENCY
INFOTRAC 800-535-5053

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product Name..... Peroxi-Det	Cas#: N/A, Preparation
Trade Name..... Oxygenated All Purpose Cleaner	
Chemical Name..... N/A, Preparation	
Chemical Family..... Peroxide	Date Prepared: 1/14/14
Hazard Classification.....N/A, Preparation	
Product Use.....Cleaner, For Industrial Use Only	

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Color: clear orange
Physical State: liquid
Odor: citrus fragrance added



POTENTIAL HEALTH EFFECTS

Primary routes of exposure: Skin contact and inhalation.
Signs and symptoms of acute exposure: The product, in the form supplied, is not anticipated to produce significant adverse human health effects.
Acute Eye: Slightly irritating. (data for solvent component)
Acute Skin: Slightly irritating. (data for solvent component)
Remarks: Handle in accordance with good industrial hygiene and safety practice. Dried product may stick to the skin causing irritation upon removal.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NUMBER	INGREDIENT % RANGE
Hydrogen Peroxide	7722-84-1	< 5 %

SECTION 4 - FIRST AID MEASURES

Eyes: Immediately flush eye(s) with plenty of water.
Skin: In case of contact, Immediately flush skin with plenty of water. Remove material from clothing. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Ingestion: If swallowed, DO NOT induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.
Inhalation: If inhaled, remove victim to fresh air.



SECTION 5 – FIRE FIGHTING MEASURES

FIRE HAZARD DATA:

Flash Point and Method: None

Flammability Limits (vol/vol%): LOWER: No data available UPPER: No data available

Extinguishing Media (suitable): Carbon dioxide (CO₂), Dry chemical, Foam, water spray

Protective Equipment: Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand/NIOSH approved or equivalent).

Further Firefighting Advice: Fire fighting equipment should be thoroughly decontaminated after use.

Fire and Explosion Hazards: When burned, the following hazardous products of combustion can occur:

Carbon oxides

Hazardous organic compounds

SECTION 6 – ACCIDENTAL RELEASE MEASURES

In case of spill or leak: Prevent further leakage or spillage if you can do so without risk. Ventilate the area. Avoid generation of vapors. Contain and collect spillage with non-combustible absorbent material such as clean sand, earth, diatomaceous earth or non-acidic clay and place into suitable properly labeled containers for prompt disposal. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

SECTION 7 – HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin, and clothing.

Storage: Keep in a dry, cool place. This material is not hazardous under normal storage conditions; however, material should be stored in closed containers, in a secure area to prevent container damage and subsequent spillage. Store in upright position only. Keep container closed when not in use.

Storage Stability: Stable under normal conditions. May coagulate if frozen at 0°C (32°F). Material may develop bacteria odor on long term storage.

Storage Incompatibility - General:

Store separate from: Strong bases, Strong oxidizing agents, Strong acids

May cause coagulation: Multivalent metal salts

Temperature tolerance – Do not store below: - 34 °F (1 °C)

Temperature tolerance – Do not store above: 100 °F (38 °C)

SECTION 8 – EXPOSURES CONTROLS/PERSONAL PROTECTION

Airborne Exposure Guidelines:

Hydrogen Peroxide

US. Workplace Environmental Exposure Level (WEEL) Guides

Time Weighted Average (TWA): 1 ppm (PEL): 1 ppm

Remarks: Listed

Only those components with exposure limits are printed in this section. Limits with skin contact designation above have skin contact effect. Air sampling alone is insufficient to accurately quantify exposure. Measures to prevent significant cutaneous absorption may be required. Limits with a sensitizer designation above mean that exposure to this material may cause allergic reactions.

Engineering Controls: Investigate engineering techniques to reduce exposures below airborne exposure limits or to otherwise reduce exposures. Provide ventilation if necessary to minimize exposures or to control exposure levels to below airborne exposure limits (if applicable see above). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.



Respiratory Protection: Avoid breathing vapor or mist. Where airborne exposure is likely or airborne exposure limits are exceeded (if applicable, see above), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components (full facepiece recommended). Consult respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure or where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Eye/Face Protection: Use good industrial practice to avoid eye contact.

Skin Protection: Minimize skin contamination by following good industrial hygiene practice. When handling this material, gloves of the following type(s) should be worn: Neoprene, nitrile, Polyvinylchloride, Natural Rubber, butyl-rubber, Chlorinated polyethylene, polyethylene (PE), ethyl vinyl alcohol laminate (EVAL).

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Color:	clear, orange	Vapor Density:	No data available
Physical State:	liquid	Vapor Pressure:	21 mm Hg @ 30°C (86°F)
Odor:	Citrus	Boiling Point:	212 °F (100 °C) (data for Water (7732-18-5))
pH:	(as is) approx. 3.7 to 4.7	Freezing Point:	32 °F (0 °C) (data for Water (7732-18-5))
Density:	calculated 8.578 g/cm ³	Solubility in water:	miscible
Specific Gravity, g/ml:	calculated 1.031 Water=1 (liquid)		

SECTION 10 – STABILITY AND REACTIVITY

Stability: This material is chemically stable under normal and anticipated storage, handling and processing conditions.

Stability-Conditions to avoid: See HANDLING AND STORAGE section of this MSDS for specified conditions. See Hazardous Decomposition Products below.

Materials to Avoid: Strong acids, Strong bases, Strong oxidizing agents

May cause coagulation: Multivalent metal salts

Hazardous Decomposition Products: Thermal decomposition giving flammable and toxic products : Hazardous organic compounds, Carbon oxides

Hazardous Polymerization: Hazardous polymerization does not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

EYE EFFECTS: 5% hydrogen peroxide: Minimally irritating (rabbit)

SKIN EFFECTS: 10% hydrogen peroxide: Mildly irritating after 4-hour exposure (rabbit)

DERMAL LD50: 35% hydrogen peroxide: > 2,000 mg/kg (rabbit)

ORAL LD50: 10% hydrogen peroxide: > 5,000 mg/kg (rat)

INHALATION LC50: 50% hydrogen peroxide: > 0.17 mg/l (rat)

ACUTE EFFECTS FROM OVEREXPOSURE: Minimally irritating to the eyes, skin, nose, throat, and lungs.

CHRONIC EFFECTS FROM OVEREXPOSURE: The International Agency for Research on Cancer (IARC) has concluded that there is inadequate evidence for carcinogenicity of hydrogen peroxide in humans, but limited evidence in experimental animals (Group 3 - not classifiable as to its carcinogenicity to humans). The American Conference of Governmental Industrial Hygienists (ACGIH) has concluded that hydrogen peroxide is a 'Confirmed Animal Carcinogen with Unknown Relevance to Humans' (A3).

CARCINOGENICITY:

Chemical Name	IARC	NTP	OSHA	Other
Hydrogen Peroxide	Listed	Not listed	Not listed	(ACGIH) Listed (A3, Animal Carcinogen)

SECTION 12 – ECOLOGICAL INFORMATION

Chemical Fate and Pathway

Hydrogen peroxide in the aquatic environment is subject to various reduction or oxidation processes and decomposes into water and oxygen. Degrades in the atmosphere within the light spectrum with hydroxyl radicals in the gas phase and subsequent photolysis.

ECOTOXICOLOGICAL INFORMATION: Channel catfish 96-hour LC50 = 37.4 mg/L

Fathead minnow 96-hour LC50 = 16.4 mg/L

Daphnia magna 24-hour EC50 = 7.7 mg/L

Daphnia pulex 48-hour LC50 = 2.4 mg/L

Freshwater snail 96-hour LC50 = 17.7 mg/L

For more information refer to ECETOC "Joint Assessment of Commodity Chemicals No. 22, Hydrogen Peroxide." ISSN-0773-6339, January 1993

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste disposal:

Disposal via incineration is recommended. Dispose of in accordance with federal, state and local regulations. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

SECTION 14 – TRANSPORT INFORMATION

US Department of Transportation (DOT): not regulated
International Maritime Dangerous Goods Code (IMDG): not regulated

SECTION 15 – REGULATORY INFORMATION

US. Toxic Substances Control Act TSCA The components of this product are all on the TSCA Inventory.
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 144) DSL This product contains one or several components that are not on the Canadian DSL nor NDSL lists.

United States – Federal Regulations

SARA Title III – Section 302 Extremely Hazardous Chemicals:

No SARA Hazards

SARA Title III - Section 311 Hazard Categories:

No SARA Hazards

SARA Title III - Section 312 Hazard Categories:

The Threshold Planning Quantity (TPQ) for this product, if treated as a mixture, is 10,000 lbs; however, this product contains the following ingredients with a TPQ of less than 10,000 lbs.:
None, (conc. <52%)

SARA Title III – Section 313 Toxic Chemicals:

No SARA Hazards

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable

Quantity (RQ): Not listed

OSHA Regulated carcinogens (NTP, IARC, OSHA Listed):

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

SECTION 16 – OTHER INFORMATION

HMIS Rating

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PROTECTIVE EQUIPMENT	B

KEY: 4=Severe, 3=Serious, 2=Moderate, 1=Slight, 0=Minimal

Protection=B (Safety goggles, gloves, apron)

HMIS – Hazardous Materials Identification System

PREPARATION INFORMATION

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SAFETY DATA SHEET



pH7 Ultra

Section 1. Identification

GHS product identifier : pH7 Ultra
Other means of identification : Not available.
Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

Supplier's details : Betco Corporation
1001 Brown Avenue
Toledo, OH 43607
www.betco.com
888-462-3826

Emergency telephone number (with hours of operation) : Chemtrec 800-424-9300 (24 Hour)

Section 2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.
Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of identification : Not available.

§ number/other identifiers

CAS number : Not applicable.
Product code : 178

Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Alcohols, C9-11, ethoxylated	≥3 - <5	68439-46-3
tetrasodium ethylene diamine tetraacetate	≥1 - <2	64-02-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

Specific hazards arising from the chemical : 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
nitrogen oxides
metal oxide/oxides

Special protective actions for fire-fighters : 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.

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

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. 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. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene 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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state	: Liquid.
Color	: Yellowish.-Green.
Odor	: Lemon-like.
Odor threshold	: Not available.
pH	: 7 to 9.5
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Closed cup: Not applicable. [Product does not sustain combustion.]
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.025
Solubility	: Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Alcohols, C9-11, ethoxylated	LD50 Dermal	Rabbit	2 g/kg	-
	LD50 Oral	Rat	1378 mg/kg	-
tetrasodium ethylene diamine tetraacetate	LD50 Oral	Rat	10 g/kg	-

Section 11. Toxicological information

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
tetrasodium ethylene diamine tetraacetate	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Inhalation hazard

Not available.

Information on the likely routes of exposure : Routes of entry anticipated: Oral, Dermal.
Routes of entry not anticipated: Inhalation.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure