

PureMax

Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2012 (HazCom 2012) Issue date: 10/6/2021 Revision date: 3/19/2024 Supersedes: 11/1/2021 Version: 3.1

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : PureMax

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Disinfectant
Recommended use : Biocidal products (e.g. Disinfectants, pest control)
Restrictions on use : Other

1.3. Supplier

PureLine Consumer Products, LLC.
1241 N. Ellis Street
Bensenville, IL 60106
U.S.
T 847-963-8465

1.4. Emergency telephone number

Emergency number : (800)255-3924, +1 (813)248-0585 [ChemTel]

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Oxidizing liquids Category 2	May intensify fire; oxidizer
Acute toxicity (oral) Category 4	Harmful if swallowed
Serious eye damage/eye irritation Category 1	Causes serious eye damage

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

Hazard statements (GHS US) : May intensify fire; oxidizer
Harmful if swallowed
Causes serious eye damage

Precautionary statements (GHS US) : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep/Store away from clothing and other combustible materials
Take any precaution to avoid mixing with combustibles
Wash hands, forearms and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves, protective clothing, eye protection, face protection.
If swallowed: Call a POISON CENTER if you feel unwell.
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.
Rinse mouth.
In case of fire: Use media other than water to extinguish.
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
sodium chlorate	CAS-No.: 7775-09-9	40
hydrogen peroxide solution ... %	CAS-No.: 7722-84-1	7 – 10

The specific chemical component identities and/or the exact component percentages of this material may be withheld as trade secrets.

This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1). Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, mutagen, and reproductive toxicant, respiratory tract and skin sensitizers in addition to oral/ inhalation acute toxicant in category 1 and 2). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents.

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: Call a poison center/doctor/physician if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Effects on humans	: Indication of any immediate medical attention and special treatment needed: Contains sodium chlorite/chlorate. Consult literature for specific antidotes. Medical supervision for at least 48 hours. If necessary oxygen respiration treatment. Later observation for pneumonia and pulmonary edema. If blue coloring appears (lips, ear-lobes, finger-nails), give oxygen treatment as quickly as possible. In cases of cyanosis, administer vitamin C, oxygen, protect from sunlight.
Expected Symptoms/Effects, Acute and Delayed	: May cause cyanosis. Nausea. May cause gastric irritation. Gastric perforation.
Symptoms/effects after inhalation	: Shortness of breath. Coughing. Dry/sore throat. Impaired concentration. May cause respiratory irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Pulmonary edema.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Flood fire area with water from a distance. Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Carbon dioxide (CO2). dry chemical powder. Foam.

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5.2. Specific hazards arising from the chemical

Fire hazard : May intensify fire; oxidizer.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with skin and eyes.

Handling temperature : ≤ 122 °F

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

Incompatible materials : Combustible materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available
sodium chlorate (7775-09-9)
No additional information available

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hydrogen peroxide solution ... % (7722-84-1)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Hydrogen peroxide
ACGIH OEL TWA [ppm]	1 ppm
Remark (ACGIH)	TLV® Basis: Eye, URT, & skin irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2023
USA - OSHA - Occupational Exposure Limits	
Local name	Hydrogen peroxide
OSHA PEL TWA [1]	1.4 mg/m ³
OSHA PEL TWA [2]	1 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Corrosionproof clothing. Gloves.

Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : light blue
Odor : Mild odour
Odor threshold : No data available
pH : 1-2
Melting point : Not applicable
Freezing point : No data available

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Boiling point	: 219 °F
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability	: Not applicable.
Vapor pressure	: < 0.1 kPa
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 1.37 g/cm ³
Solubility	: Miscible with water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

May intensify fire; oxidizer.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong reducing agents. Oxidizing agent. Acids. Amines. alcohols. Combustible materials.

10.6. Hazardous decomposition products

Chlorine.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

PureMax	
ATE US (oral)	1000 mg/kg body weight
sodium chlorate (7775-09-9)	
ATE US (oral)	500 mg/kg body weight

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hydrogen peroxide solution ... % (7722-84-1)	
LD50 oral rat	693.7 mg/kg Source: ECHA
LD50 dermal rabbit	3000 mg/kg Source: ChemIDPlus
LC50 Inhalation - Rat	2000 mg/m ³ Source: ChemIDPlus
ATE US (oral)	693.7 mg/kg body weight
ATE US (dermal)	3000 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	2 mg/l/4h
ATE US (dust, mist)	2 mg/l/4h

Skin corrosion/irritation	: Not classified pH: 5
Serious eye damage/irritation	: Causes serious eye damage. pH: 5
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

hydrogen peroxide solution ... % (7722-84-1)	
IARC group	3 - Not classifiable

Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

hydrogen peroxide solution ... % (7722-84-1)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Effects on humans	: Indication of any immediate medical attention and special treatment needed: Contains sodium chlorite/chlorate. Consult literature for specific antidotes. Medical supervision for at least 48 hours. If necessary oxygen respiration treatment. Later observation for pneumonia and pulmonary edema. If blue coloring appears (lips, ear-lobes, finger-nails), give oxygen treatment as quickly as possible. In cases of cyanosis, administer vitamin C, oxygen, protect from sunlight.
Expected Symptoms/Effects, Acute and Delayed	: May cause cyanosis. Nausea. May cause gastric irritation. Gastric perforation.
Symptoms/effects after inhalation	: Shortness of breath. Coughing. Dry/sore throat. Impaired concentration. May cause respiratory irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Pulmonary edema.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
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hydrogen peroxide solution ... % (7722-84-1)	
LC50 - Fish [1]	16.4 mg/l Source: ECHA

12.2. Persistence and degradability

No additional information available

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12.3. Bioaccumulative potential

hydrogen peroxide solution ... % (7722-84-1)

Partition coefficient n-octanol/water (Log Pow) : -1.36 Source: IPCS

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

DOT NA No : UN2428
UN-No. (IMDG) : 2428
UN-No. (IATA) : 2428

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Sodium chlorate, aqueous solution
Proper Shipping Name (IMDG) : SODIUM CHLORATE, AQUEOUS SOLUTION
Proper Shipping Name (IATA) : Sodium chlorate, aqueous solution

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 5.1
Hazard labels (DOT) : 5.1



IMDG

Transport hazard class(es) (IMDG) : 5.1
Hazard labels (IMDG) : 5.1



IATA

Transport hazard class(es) (IATA) : 5.1
Hazard labels (IATA) : 5.1

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14.4. Packing group

Packing group (DOT) : II
Packing group (IMDG) : II
Packing group (IATA) : II

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

UN-No.(DOT) : UN2428
DOT Special Provisions (49 CFR 172.102) : A2 - Single packaging are not permitted on aircraft.
IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 152
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 1 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 5 L
DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other : 56 - Stow "separated from" ammonium compounds, 58 - Stow "separated from" cyanides, 133 - Stow "separated from" sulfur.

IMDG

Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P504
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1
EmS-No. (Fire) : F-H - FIRE SCHEDULE Hotel - OXIDIZING SUBSTANCES WITH EXPLOSIVE POTENTIAL
EmS-No. (Spillage) : S-Q - SPILLAGE SCHEDULE Quebec - OXIDIZING SUBSTANCES
Stowage category (IMDG) : B
Properties and observations (IMDG) : Colourless liquid. When involved in a fire, may cause an explosion. Leakage and subsequent evaporation of the water may present increased dangers as follows: 1. in contact with combustible material (particularly with fibrous material such as jute, cotton or sisal) or sulphur, danger of spontaneous combustion; 2. in contact with ammonium compounds, powdered metals or oils, danger of explosion.

IATA

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y540

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PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 550
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 554
CAO max net quantity (IATA)	: 5L
Special provision (IATA)	: A3, A803
ERG code (IATA)	: 5L

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

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

hydrogen peroxide solution ... % (7722-84-1)

RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb

FIFRA Labelling

EPA Registration Number 88341-3

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. Following is the hazard information as required on the pesticide label.

FIFRA Signal Word Danger

FIFRA Precautionary Statement Keep out of reach of children.

FIFRA Human Health Hazards Danger. Corrosive. Causes irreversible eye damage. Harmful if absorbed through the skin or inhaled. Do not get in eyes or on clothing. Avoid contact with skin, eyes, and clothing. Avoid breathing spray mist. Wear goggles or faceshield. When contact is likely, wear PVC or rubber rainsuit and wash down rainsuit after each use. Wear protective gloves, plastic or rubber. Wear plastic or rubber safety toed boots. Leather and cloth impregnated with sodium chlorate are highly flammable and easily ignited with minor friction. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before re-use. Do not allow contaminated clothing to dry before washing clothing on-site.

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FIFRA Labelling	
FIFRA First Aid	<p>IF IN 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, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.</p> <p>IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor immediately for treatment advice.</p> <p>IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person Sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.</p> <p>IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice. .</p>
FIFRA Environmental Hazards	<p>This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional office of the EPA.</p>
FIFRA Physical Hazard	<p>PureMax is a strong oxidizing agent. Do not contaminate with dirt, oils or organic matter of any sort. Contamination may cause violent chemical reactions, fire and explosion. Clean up all chemical spills immediately. Allowing spills to dry or concentrate may cause spontaneous combustion. In case of chemical spills, avoid bodily contact and wear appropriate protective equipment.</p>
FIFRA Other	<p>For emergency information call: 800-424-9300 (24 hours)</p> <p>Have the product container or label with you when calling a poison control center or doctor or going to treatment.</p> <p>NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate for the use of gastric lavage.</p>

15.2. International regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

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Revision date : 03/19/2024

ICSDS_SDS_USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.