

SAFETY DATA SHEET

PEROXYCLEAR® 50% Bulk

Version	Revision Date:	US / Z8	Date of last issue: 12/15/2022
2.6	12/15/2022		Date of first issue: 06/22/2015

SECTION 1. IDENTIFICATION

Product name : PEROXYCLEAR® 50% Bulk

Manufacturer or supplier's details

Company name of supplier : Nouryon Pulp and Performance
Chemicals LLC

Address : 100 Matsonford Road, Building 1, Suite 500
Radnor PA 19087
US

Telephone : (770) 578-0858

Telefax : (770) 578-1359

E-mail address : psra.ppc@nouryon.com

Emergency telephone : US CHEMTREC +1-800-424-9300 Internat'l +1-703-741-5971
(collect calls accepted) CANADA CANUTEC +1-613-996-6666-:
CHEMTREC (24-hr): (800) 424-9300 (Toll-free in the U.S.,
Canada and the U.S. Virgin Islands)
CHEMTREC (24-hr): (703) 527-3887 (For calls originating
elsewhere / collect calls are accepted)

Recommended use of the chemical and restrictions on use

Recommended use : As a bleaching agent in the pulp industry.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Oxidizing liquids : Category 2

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Skin corrosion : Category 1B

Serious eye damage : Category 1

Specific target organ toxicity : Category 3 (Respiratory system)
- single exposure

Short-term (acute) aquatic hazard : Category 2

SAFETY DATA SHEET

PEROXYCLEAR® 50% Bulk

Version 2.6 Revision Date: 12/15/2022 US / Z8 Date of last issue: 12/15/2022
 Date of first issue: 06/22/2015

Long-term (chronic) aquatic hazard : Category 4

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H272 May intensify fire; oxidizer.
 H302 + H332 Harmful if swallowed or if inhaled.
 H314 Causes severe skin burns and eye damage.
 H335 May cause respiratory irritation.
 H401 Toxic to aquatic life.
 H413 May cause long lasting harmful effects to aquatic life.

Precautionary Statements : **Prevention:**
 P210 Keep away from heat.
 P220 Keep/Store away from clothing/ combustible materials.
 P221 Take any precaution to avoid mixing with combustibles.
 P261 Avoid breathing mist, vapours or spray.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
 P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER/ doctor.
 P363 Wash contaminated clothing before reuse.
 P370 + P378 In case of fire: Use water spray to extinguish.

Storage:

P403 Store in a well-ventilated place.

SAFETY DATA SHEET

PEROXYCLEAR® 50% Bulk

Version 2.6 Revision Date: 12/15/2022 US / Z8 Date of last issue: 12/15/2022
 Date of first issue: 06/22/2015

P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with local regulation.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
 Chemical nature : Hydrogen peroxide, aqueous solution.

Components

Chemical name	CAS-No.	Concentration (% w/w)
Hydrogen peroxide	7722-84-1	>= 50 - < 70

SECTION 4. FIRST AID MEASURES

General advice : Immediate medical attention is required.
 Move out of dangerous area.
 Show this material safety data sheet to the doctor in attendance.

If inhaled : If breathed in, move person into fresh air.
 Consult a physician after significant exposure.
 Obtain medical attention.

In case of skin contact : Rinse immediately with plenty of water.
 Immediately remove all contaminated clothing and shoes and soak them in water to prevent risk of fire, do not allow to dry out until washed.
 Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

In case of eye contact : Rinse with plenty of water.
 Get medical attention immediately. Continue to rinse during transport of patient.
 Remove contact lenses.
 Protect unharmed eye.
 Keep eye wide open while rinsing.
 Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

SAFETY DATA SHEET

PEROXYCLEAR® 50% Bulk

Version	Revision Date:	US / Z8	Date of last issue: 12/15/2022
2.6	12/15/2022		Date of first issue: 06/22/2015

Never give anything by mouth to an unconscious person.
 Take victim immediately to hospital.
 Do not induce vomiting! May cause chemical burns in mouth and throat.

Most important symptoms and effects, both acute and delayed : No information available.
 Harmful if swallowed or if inhaled.
 Causes serious eye damage.
 May cause respiratory irritation.
 Causes severe burns.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water

Unsuitable extinguishing media : Foam
 Carbon dioxide (CO₂)
 Dry chemical
 Fire blanket
 powder

Specific hazards during fire fighting : Hydrogen peroxide is a strong oxidant and exothermally decomposes to water and large amounts of oxygen.
 Risk of explosion if exposed to fire
 Water spray may be ineffective unless used by experienced firefighters.
 Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Oxygen

Further information : Use water spray to cool unopened containers.
 Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
 Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus and protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
 Wear respiratory protection.
 Ensure adequate ventilation.

SAFETY DATA SHEET

PEROXYCLEAR® 50% Bulk

Version	Revision Date:	US / Z8	Date of last issue: 12/15/2022
2.6	12/15/2022		Date of first issue: 06/22/2015

- Remove all sources of ignition.
For personal protection see section 8.
- Environmental precautions : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Never return spills in original containers for re-use.
Avoid contact with combustible material (paper, wool, oil).

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Keep away from combustible material.
- Advice on safe handling : For personal protection see section 8.
Avoid formation of aerosol.
Do not breathe vapors or spray mist.
Avoid contact with skin, eyes and clothing.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.
When handling, use only inert lubricants and packings for pumps, valves and other equipment.
Do not confine in unvented vessels.
Never return unused material to storage receptacle.
Protect from contamination.
Keep away from heat and sources of ignition.
Avoid shock and friction.
- Conditions for safe storage : Keep in a cool, well-ventilated place.
Store in a fireproof area.
Store in a receptacle equipped with a vent.
- Further information on storage conditions : Keep away from combustible material.
- Materials to avoid : Store separately from all other materials.
- Further information on storage stability : No decomposition if stored and applied as directed.

SAFETY DATA SHEET

PEROXYCLEAR® 50% Bulk

Version
2.6

Revision Date:
12/15/2022

US / Z8

Date of last issue: 12/15/2022

Date of first issue: 06/22/2015

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Hydrogen peroxide	7722-84-1	TWA	1 ppm	ACGIH
		TWA	1 ppm 1.4 mg/m ³	NIOSH REL
		TWA	1 ppm 1.4 mg/m ³	OSHA Z-1
		TWA	1 ppm 1.4 mg/m ³	OSHA P0

Engineering measures : Effective exhaust ventilation system
Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Respiratory protection : In the case of vapor or aerosol formation use a respirator with an approved filter.
Gas cartridge A (organic substances, brown).
Gas cartridge B (acid gases, grey).
Self-contained breathing apparatus (EN 133)
(in case of higher concentration)

Hand protection

Material : PVC

Material : Rubber gloves

Eye protection

: Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection

: Protective suit
Do not wear leather shoes.
Do not wear protective clothes containing cotton.

Hygiene measures

: Handle in accordance with good industrial hygiene and safety practice.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

SAFETY DATA SHEET

PEROXYCLEAR® 50% Bulk

Version 2.6	Revision Date: 12/15/2022	US / Z8	Date of last issue: 12/15/2022 Date of first issue: 06/22/2015
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Appearance	:	liquid
Color	:	colorless
Odor	:	pungent
Odor Threshold	:	No data available
pH	:	0.8 - 1.8
Melting point/range	:	-69 °F / -56 °C
Boiling point/boiling range	:	248 °F / 120 °C
Flash point	:	does not flash
Evaporation rate	:	1
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	The product is not flammable.
Self-ignition	:	Not applicable
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapor pressure	:	13 hPa (68 °F / 20 °C)
Relative vapor density	:	(Air = 1.0)
Relative density	:	1.07 - 1.23
Solubility(ies)		
Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	Not applicable
Decomposition temperature	:	No data available

SAFETY DATA SHEET

PEROXYCLEAR® 50% Bulk

Version	Revision Date:	US / Z8	Date of last issue: 12/15/2022
2.6	12/15/2022		Date of first issue: 06/22/2015

Viscosity		
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is classified as oxidizing with the category 2.
Molecular weight	:	34.02 g/mol

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Reacts with copper, aluminum, zinc and their alloys
Chemical stability	:	Stabilizing additive(s) Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Contamination from various metals or organic materials may cause rapid decomposition of the hydrogen peroxide, resulting in oxygen gas release and buildup if not properly vented.
Conditions to avoid	:	Avoid elevated temperatures. Direct heating, dirt, chemical contamination, sunlight, UV or ionizing radiation.
Incompatible materials	:	Organic materials Organic solvents. Reducing agents Powdered metal salts Metals Dirt Incompatible with bases. Decomposes by reaction with alkaline solutions.
Hazardous decomposition products	:	Hydrogen peroxide is a strong oxidant and exothermally decomposes to water and large amounts of oxygen.
Thermal decomposition	:	No data available

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed or if inhaled.

Product:

Acute oral toxicity	:	Acute toxicity estimate: 862 mg/kg Method: Calculation method
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SAFETY DATA SHEET

PEROXYCLEAR® 50% Bulk

Version	Revision Date:	US / Z8	Date of last issue: 12/15/2022
2.6	12/15/2022		Date of first issue: 06/22/2015

Acute inhalation toxicity : Acute toxicity estimate: 3 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist
 Method: Calculation method

Components:

Hydrogen peroxide:

Acute oral toxicity : LD50 (Rat): 431 mg/kg
 Method: OECD Test Guideline 401
 Remarks: Information taken from reference works and the literature.

Acute inhalation toxicity : LC50: 1.5 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist
 Method: Expert judgment

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Acute dermal toxicity : LD50 Dermal (Rabbit, male): > 5,000 mg/kg
 Remarks: Information taken from reference works and the literature.

Skin corrosion/irritation

Causes severe burns.

Components:

Hydrogen peroxide:

Result : Causes severe burns.

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

Hydrogen peroxide:

Assessment : Causes severe burns.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

SAFETY DATA SHEET

PEROXYCLEAR® 50% Bulk

Version	Revision Date:	US / Z8	Date of last issue: 12/15/2022
2.6	12/15/2022		Date of first issue: 06/22/2015

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Components:

Hydrogen peroxide:

Genotoxicity in vivo : Species: Mouse (male and female)
 Application Route: Intraperitoneal
 Method: Mutagenicity (micronucleus test)
 Result: negative
 GLP: yes
 Remarks: Information taken from reference works and the literature.

Carcinogenicity

Not classified based on available information.

IARC No ingredient 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 on OSHA's list of regulated carcinogens.

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

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : No further data available.

Components:

Hydrogen peroxide:

Remarks : No further data available.

SAFETY DATA SHEET

PEROXYCLEAR® 50% Bulk

Version 2.6 Revision Date: 12/15/2022 US / Z8 Date of last issue: 12/15/2022
 Date of first issue: 06/22/2015

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Hydrogen peroxide:

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 16.4 mg/l
 Exposure time: 96 h
 Test Type: semi-static test
 Remarks: Information taken from reference works and the literature.

- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia pulex (Water flea)): 2.4 mg/l
 Exposure time: 48 h
 Test Type: semi-static test
 Remarks: Information taken from reference works and the literature.

- Toxicity to algae/aquatic plants : ErC50 (Skeletonema costatum (marine diatom)): 1.38 mg/l
 Exposure time: 72 h
 Test Type: static test
 Remarks: Information taken from reference works and the literature.

Ecotoxicology Assessment

- Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Persistence and degradability

Components:

Hydrogen peroxide:

- Biochemical Oxygen Demand (BOD) : Remarks: No data available

Bioaccumulative potential

Components:

Hydrogen peroxide:

- Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Mobility in soil

Components:

Hydrogen peroxide:

SAFETY DATA SHEET

PEROXYCLEAR® 50% Bulk

Version	Revision Date:	US / Z8	Date of last issue: 12/15/2022
2.6	12/15/2022		Date of first issue: 06/22/2015

Mobility : Remarks: Can be leached out from soil.

Distribution among environmental compartments : Remarks: Transport to air is not expected.

Other adverse effects

Product:

Results of PBT and vPvB assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.
May cause long lasting harmful effects to aquatic life.

Components:

Hydrogen peroxide:

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.
Harmful to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Hazardous waste

SAFETY DATA SHEET

PEROXYCLEAR® 50% Bulk

Version	Revision Date:	US / Z8	Date of last issue: 12/15/2022
2.6	12/15/2022		Date of first issue: 06/22/2015

Dispose of contents/container in accordance with local regulation.

Contaminated packaging : Empty remaining contents.
Clean container with water.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 2014
Proper shipping name : HYDROGEN PEROXIDE, AQUEOUS SOLUTION
Class : 5.1
Subsidiary risk : 8
Packing group : II
Labels : 5.1 (8)

IATA-DGR

Not permitted for transport

IMDG-Code

UN number : UN 2014
Proper shipping name : HYDROGEN PEROXIDE, AQUEOUS SOLUTION

Class : 5.1
Subsidiary risk : 8
Packing group : II
Labels : 5.1 (8)
EmS Code : F-H, S-Q
Marine pollutant : no

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number : UN 2014
Proper shipping name : Hydrogen peroxide, aqueous solutions

Class : 5.1
Subsidiary risk : 8
Packing group : II
Labels : OXIDIZER, CORROSIVE
ERG Code : 140
Marine pollutant : no
Reportable Quantity : This product does not contain an environmentally hazardous

SAFETY DATA SHEET

PEROXYCLEAR® 50% Bulk

Version 2.6 Revision Date: 12/15/2022 US / Z8 Date of last issue: 12/15/2022
 Date of first issue: 06/22/2015

substance per 49 CFR 172.101, Appendix A.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Hydrogen peroxide	7722-84-1	1000	2000

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
Hydrogen peroxide	7722-84-1	1000

SARA 311/312 Hazards : Oxidizer (liquid, solid or gas)
 Acute toxicity (any route of exposure)
 Skin corrosion or irritation
 Serious eye damage or eye irritation
 Specific target organ toxicity (single or repeated exposure)

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.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals subject to disclosure and listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

SAFETY DATA SHEET

PEROXYCLEAR® 50% Bulk

Version
2.6

Revision Date:
12/15/2022

US / Z8

Date of last issue: 12/15/2022

Date of first issue: 06/22/2015

Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

TCSI	: On the inventory, or in compliance with the inventory
TSCA	: All substances listed as active on the TSCA inventory
AIIC	: On the inventory, or in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
ENCS	: On the inventory, or in compliance with the inventory
ISHL	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
TECI	: Not in compliance with the inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

SAFETY DATA SHEET

PEROXYCLEAR® 50% Bulk

Version
2.6

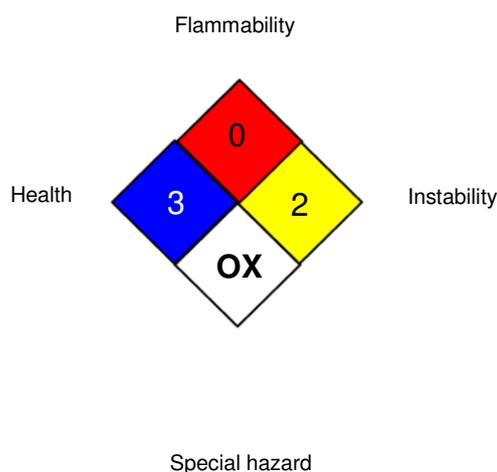
Revision Date:
12/15/2022

US / Z8

Date of last issue: 12/15/2022

Date of first issue: 06/22/2015

NFPA 704:



HMIS® IV:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	2

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA P0	: USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	: 8-hour, time-weighted average
NIOSH REL / TWA	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA	: 8-hour time weighted average
OSHA Z-1 / TWA	: 8-hour time weighted average

AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization;

SAFETY DATA SHEET

PEROXYCLEAR® 50% Bulk

Version	Revision Date:	US / Z8	Date of last issue: 12/15/2022
2.6	12/15/2022		Date of first issue: 06/22/2015

KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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Revision Date : 12/15/2022

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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.

US / Z8