

## 1. Product and Company Identification

www.rxmarine.com

Product Name Hydrogen Peroxide Food Grade 35%  
Part Number RXSOL-15-1630-035

### Company Details:

RX MARINE INTERNATIONAL  
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## 2. Composition / Information on ingredients

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Chemical Name	Cas No	EC No	Whight	Formula
Hydrogen peroxide 35%	7722-84-1	231-765-0	>= 35 - < 40 %	H2O2

## 3. Hazards Identification

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Signal Word	Danger
Hazard Statements	H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P261 Avoid breathing mist or vapors. P273 Avoid release to the environment. P280 Wear protective gloves/ eye protection/ face protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P302 + P352 IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Supplemental Hazard Statements	None
Other hazards	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.

## 4. First Aid Measures

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General advice	fresh air. Consult doctor if feeling unwell.
If inhaled	After inhalation: fresh air. Call in physician.
Eye Contact	After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
Swallowed	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.
Skin Contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
Most important symptoms and effects, both acute and delaye	The most important known symptoms and effects are described in the

Indication of any immediate medical attention and special treatment needed

labelling (see section 2.2) and/or in section 11

No data available

## 5. Fire-fighting Measures

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Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture  
Further information

Nature of decomposition products not known. Not combustible.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

## 6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

Environmental Precaution

Do not let product enter drains.

Methods and materials for containment and cleaning

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemisorb®). Dispose of properly. Clean up affected area.

Reference to other sections

For disposal see section 13.

## 7. Handling and Storage

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Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

Advice on safe handling

Observe label precautions.

Storage conditions

Close containers in such a way to enable internal pressure to escape (e.g. excess pressure valve). No metal containers. Tightly closed. Protected from light. Away from combustible materials and sources of ignition and heat. Recommended storage temperature see product label.

Storage class

Storage class (TRGS 510) 5.1B Oxidizing hazardous materials

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## 8. Exposure controls and personal protection

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Eye/face protection

Tightly fitting safety goggles

Body Protection

protective clothing

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)). Full contact Material: Latex gloves Minimum layer thickness: 0,6 mm Break through

time: > 480 min Material tested:Lapren® (KCL 706 / Aldrich Z677558, Size M) This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: > 480 min Material tested:KCL 741 Dermatril® L

Respiratory protection

Recommended Filter type: filter NO The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains.

## 9. Physical and chemical properties

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Physical state	Liquid
Colour	Colorless
Odour	Slight
Odor Threshold	Not Applicable
pH	ca.2 - 4 at 20 °C
Melting Point	ca.-24 °C
Boiling Point	ca.110 °C at 1.013 hPa
Flash Point	152 °C
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	19 %(V) / 2,7 %(V)
Autoignition temperature	> 500 °C at 1.013,25 hPa
Decomposition temperature	> 100 °C
Vapour pressure	ca.20 hPa at20 °C
Viscosity	No data available
Density	1,13 g/cm <sup>3</sup> at 20 °C
Relative Density	No data available
Partition coefficient	No data available
Explosive properties	No data available
Solubility	at 20 °C soluble
Particle characteristics	No data available

## 10. Stability and reactivity

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Reactivity	Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.
Chemical stability	heat-sensitive Sensitivity to light Contains the following stabilizer(s): Disodium pyrophosphate (0,015 %) phosphoric acid (0,01 %) Ammonium nitrate (0,006 %)
Possibility of hazardous reactions	Risk of explosion with: Risk of ignition or formation of inflammable gases or vapours with: hydrazine and derivatives hydrides combustible substances Ether anhydrides Oxidizing agents Organic Substances peroxi compounds permanganates organic solvent organic nitro compounds Brass Alkali metals alkali salts Alkaline earth metals Metals metallic oxides Metallic salts nonmetals nonmetallic oxides Aldehydes Alcohols Amines Ammonia Acids strong alkalis Acetaldehyde Acetone Activated charcoal anilines Lead Powdered metals acetic acid Acetic anhydride Potassium iodides potassium permanganate Methanol sodium oils phosphorus Oxides of phosphorus conc. sulfuric acid Heavy metals silver in powder form alkali hydroxides with Heavy metals vinyl acetate with Millipore-

Conditions to avoid  
Incompatible materials  
Hazardous decomposition products

Heating.  
Lead, bronze, Iron, Copper, Brass, silver, Metals, metal alloys  
In the event of fire: see section 5

## 11. Toxicological information

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Acute toxicity

LD50 Oral - Rat - 1.193 - 1.270 mg/kg Acute toxicity estimate Inhalation - 4 h - > 20 mg/l - vapor (Calculation method) LD50 Dermal - Rabbit - male and female - > 2.000 mg/kg (US-EPA)

Skin corrosion/irritation

After long-term exposure to the chemical: Causes skin burns conjunctivitis

Serious eye damage/irritation

Respiratory or skin sensitization

Sensitisation test: - Guinea pig Result: negative Remarks

Carcinogenicity

Suspected of causing cancer.

Germ cell mutagenicity

Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: in vitro test Test system: Other cell types Metabolic activation: without metabolic activation Method: Regulation (EC) No. 440/2008, Annex, B.21 Result: positive Test Type: in vitro test Test system: Embryo Metabolic activation: without metabolic activation Result: negative Remarks: (ECHA) Test Type: In vivo micronucleus test Species: Mouse Cell type: Red blood cells (erythrocytes) Application Route: Oral Method: OECD Test Guideline 474 Result: negative Test Type: In vivo micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: positive Test Type: Genotoxicity in vivo Species: Drosophila melanogaster Application Route: Intraperitoneal injection Method: OECD Test Guideline 477 Result: negative Test Type: dominant lethal test Species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 478 Result: negative

Reproductive toxicity

Mixture may cause respiratory irritation. - Respiratory system

Specific target organ toxicity - single exposure

No data available

Additional Information

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Dizziness, Unconsciousness, Diarrhea, Nausea, Vomiting, Headache, Convulsions, muscle twitching, insomnia, shock, Irritation and corrosion, conjunctivitis Risk of serious damage to eyes. Systemic effects: Headache Dizziness Nausea Vomiting Diarrhea insomnia muscle twitching Convulsions Unconsciousness shock Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

## 12. Ecological information

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Persistence and degradability

Biodegradability aerobic - Exposure time 28 d Result: 99 % - Readily biodegradable. (OECD Test Guideline 301A)

Toxicity to fish

Semi-static test LC50 - Pimephales promelas (fathead minnow) - 16,4 mg/l - 96 h (US-EPA)

Toxicity to daphnia and other aquatic invertebrates

Semi-static test LC50 - Daphnia pulex (Water flea) - 2,4 mg/l - 48 h (US-EPA)

Toxicity to bacteria

Static test EC50 - activated sludge - 466 mg/l - 30 min (OECD Test Guideline 209) static test EC50 - activated sludge - > 1.000 mg/l - 3 h (OECD Test Guideline 209)

Toxicity to algae	Static test ErC50 - Skeletonema costatum (marine diatom) - 1,38 mg/l - 72 h (ECHA) static test NOEC - Skeletonema costatum (marine diatom) - 0,63 mg/l - 72 h (ECHA)
Mobility in soil	No data available
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.
Endocrine disrupting properties	Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Other adverse effects	No interference with wastewater treatment plants are to be expected when used properly. Discharge into the environment must be avoided.

### 13. Disposal considerations

[www.rxmarine.com](http://www.rxmarine.com)

Product	See <a href="http://www.retrologistik.com">www.retrologistik.com</a> for processes regarding the return of chemicals and containers, or contact us there if you have further questions.
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### 14. Transport information

[www.rxmarine.com](http://www.rxmarine.com)

UN number	ADR/RID:2014 IMDG:2014 IATA: 2014
UN proper shipping name	ADR/RID:HYDROGEN PEROXIDE, AQUEOUS SOLUTION IMDG:HYDROGEN PEROXIDE, AQUEOUS SOLUTION IATA:HYDROGEN PEROXIDE, AQUEOUS SOLUTION
Transport hazard class(es)	ADR/RID:5.1 (8) IMDG:5.1 (8) IATA:5.1 (8)
Packaging group	ADR/RID:II IMDG:II IATA:II
Environmental hazards	ADR/RID: No IMDG: No IATA: No
Special precautions for user	No data available
Further information	No data available

### 15. Regulatory information

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Safety, health and environmental regulations/legislation specific for the substance or mixture	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Other regulations	Take note of Dir 94/33/EC on the protection of young people at work.
Chemical Safety Assessment	For this product a chemical safety assessment has been carried out

### 16. Other information

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Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.
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