

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product form: Mixture
Product name: Hydrogen Peroxide 35%

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

Relevant identified uses:

Industrial/Professional use spec: Industrial

Use of the substance/mixture: Solvents

Uses advised against:

Restrictions on use: Not intended for biocidal use

Details of the supplier of the safety data sheet:

Company name: Nexchem Ltd
Unit 3 Barshaw Park
Leycroft Road
Leicester
LE4 1ET
Tel: 0116 2311130
24/7 Emergency Tel: 0800 246 1274
Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Acute toxicity (oral), Category 4: H302

Acute toxicity (inhalation: dust,mist) Category 4: H332

Skin corrosion/irritation, Category 2: H315

Serious eye damage/eye irritation, Category 1: H318

Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation: H335

Full text of H- and EUH-statements: See section 16.

Adverse physicochemical, human health and environmental effects:

Harmful if inhaled.
Harmful if swallowed.
May cause respiratory irritation.
Causes skin irritation. Causes serious eye damage.

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Label elements:

Labelling according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard pictograms (CLP):



Signal word (CLP):

Danger

Contains:

Hydrogen peroxide solution... %

Hazard statements (CLP):

H302+H332 - Harmful if swallowed or if inhaled.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H335 - May cause respiratory irritation.

Precautionary statements (CLP):

P261 - Avoid breathing vapours, spray.

P264 - Wash skin thoroughly after handling.

P280 - Wear protective clothing, 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.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338+P310 - 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, a doctor.

P310 - Immediately call a POISON CENTER, a doctor.

P501 - Dispose of contents and container to an approved waste disposal plant.

Other hazards:

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1%.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures:

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
hydrogen peroxide solution..%	CAS-No.: 7722-84-1 EC-No.: 231-765-0 EC Index-No.: 008-003-00-9	30-40	Ox. Liq. 1, H271 Acute Tox. 4 (Oral), H302 (ATE=500mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=11 mg/l/4h) Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 3, H412

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
hydrogen peroxide solution... %	CAS-No.: 7722-84-1 EC-No.: 231-765-0 EC Index-No.: 008-003-00-9	(5 ≤ C < 8) Eye Irrit. 2; H319 (8 ≤ C < 50) Eye Dam. 1; H318 (35 ≤ C < 50) Skin Irrit. 2; H315 (35 ≤ C ≤ 100) STOT SE 3; H335 (50 ≤ C < 70) Ox. Liq. 2; H272 (50 ≤ C < 70) Skin Corr. 1B; H314 (70 ≤ C ≤ 100) Ox. Liq. 1; H271 (70 ≤ C ≤ 100) Skin Corr. 1A; H314

Full text of H- and EUH-statements: See section 16.

4. FIRST AID MEASURES

Description of first aid measures:

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, trained personnel should give oxygen. In case of loss of consciousness, place the victim in the recovery position. Obtain medical attention if irritation persists.

First-aid measures after eye contact: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes. Get immediate medical advice/attention.

First-aid measures after ingestion: Wash out mouth with water and afterwards drink plenty of water. Do NOT induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention. If unconscious place in recovery position and seek medical advice.

First-aid measures for first aider: First aid workers will be equipped with suitable personal protective equipment.

Most important symptoms and effects, both acute and delayed:

Symptoms/effects after inhalation: Harmful if inhaled. May cause respiratory irritation.

Symptoms/effects after skin contact: Irritation.

Symptoms/effects after eye contact: Serious damage to eyes.

Symptoms/effects after ingestion: Harmful if swallowed.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Water spray.

Unsuitable extinguishing media: Do not use a water jet since it may cause the fire to spread. Carbon dioxide (CO₂). Dry chemical powder. Foam.

Special hazards arising from the substance or mixture:

Fire hazard: No fire hazard.

Explosion hazard: Prolonged exposure to fire may cause containers to rupture/explode.

Hazardous decomposition products in case of fire: Toxic fumes may be released.

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Advice for firefighters:

Precautionary measures fire: Cool containers / tanks with spray water if possible. Collect contaminated extinguishing water separately and must not enter the sewage system. Keep upwind. Move containers from fire area if it can be done without personal risk.

Firefighting instructions: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Notify authorities if liquid enters sewers or public waters.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

General measures: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

For non-emergency personnel:

Protective equipment: Wear recommended personal protective equipment.

Emergency procedures: Ventilate spillage area. Avoid breathing vapours, spray. Avoid contact with skin and eyes.

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".

Emergency procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

Environmental precautions: Avoid release to the environment. Do not allow to enter drains or water courses. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up:

For containment: Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up: Take up liquid spill into absorbent material. Absorb and/or contain spill with inert material (sand), then place in suitable container. Dispose of via an authorised person/ licensed waste disposal contractor or by other suitable waste treatment techniques. Do not flush into surface water or sewer system.

Other information: Dispose of contaminated materials in accordance with current regulations.

Reference to other sections: For further information refer to section 13. See Section 8 for information on personal protection equipment.

7. HANDLING AND STORAGE

Precautions for safe handling:

Additional hazards when processed: Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling: Use only outdoors or in a well-ventilated area. Avoid breathing vapours, spray. Avoid contact with skin and eyes. Wear personal protective equipment.

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

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Conditions for safe storage, including any incompatibilities:

Technical measures:	Keep in a cool, well-ventilated place away from heat.
Storage conditions:	Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Incompatible materials:	Alkalis. Acetone. Metal oxides. reducing materials. Organic compounds. Metals.
Storage temperature:	5-20°C
Heat and ignition sources:	Keep away from open flames, hot surfaces and sources of ignition.
Packaging materials:	Store always product in container of same material as original container.
Specific end use(s):	No additional information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters: No additional information available.

Exposure controls:

Appropriate engineering controls: Provide local exhaust or general room ventilation.

Personal protective equipment: Wear recommended personal protective equipment.

Personal protective equipment symbol(s):



Eye and face protection:

Eye protection: Wear eye protection.

Skin protection:

Skin and body protection: Wear suitable protective clothing

Hand protection: Wear protective gloves. Consult glove manufacturer's product information on material suitability and material thickness. Gloves must be replaced after each use and whenever signs of wear or perforation appear.

Respiratory protection: [In case of inadequate ventilation] wear respiratory protection. Respiratory protective device with a gas filter. type A, type B.

Environmental exposure controls: Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state:	Liquid
Colour:	Colourless
Appearance:	Liquid
Odour:	Stinging
Odour threshold:	Not available
Melting point:	Not applicable

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Freezing point:	Not available
Boiling point:	Not available
Flammability:	Non-flammable
Lower explosion limit:	Not available
Upper explosion limit:	Not available
Flash point:	114°C
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
pH:	3
pH solution concentration:	35%
Viscosity, kinematic:	Not available
Viscosity, dynamic:	1.17 mPa-s
Solubility:	Miscible with water
Partition coefficient n-octanol/water (Log Kow):	Not available
Vapour pressure:	2.99 hPa
Vapour pressure at 50°C:	Not available
Density:	Not available
Relative density:	1.914
Relative vapour density at 20°C:	Not available
Particle characteristics:	Not applicable
Other information:	No additional information available

10. STABILITY AND REACTIVITY

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: No dangerous reactions known under normal conditions of use.

Conditions to avoid: Heat. Direct sunlight.

Incompatible materials: Acetone. alkalis. metals. Metal oxides. reducing agents. Organic materials.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity (oral): Harmful if swallowed.

Acute toxicity (dermal): Not classified (Based on available data, the classification criteria are not met).

Acute toxicity (inhalation): Inhalation: dust,mist: Harmful if inhaled.

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HYDROGEN PEROXIDE 35%:	
ATE CLP (oral)	1428.571 mg/kg bodyweight
ATE CLP (dust,mist)	4.286 mg/l/4h

hydrogen peroxide solution... % (7722-84-1):	
LD50 dermal rabbit	>2000 mg/kg bodyweight Animal: rabbit, Guideline: other., Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation: Causes skin irritation.
pH: 3

DEMINE WATER (7732-18-5):	
pH	pH (concentrated solution): 7.0

Serious eye damage/irritation: Causes serious eye damage.
pH: 3

DEMINE WATER (7732-18-5):	
pH	pH (concentrated solution): 7.0

Respiratory or skin sensitisation: Not classified (Based on available data, the classification criteria are not met).

Germ cell mutagenicity: Not classified (Based on available data, the classification criteria are not met).

Carcinogenicity: Not classified (Based on available data, the classification criteria are not met).

Reproductive toxicity: Not classified (Based on available data, the classification criteria are not met).

STOT-single exposure: May cause respiratory irritation.

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

STOT-repeated exposure: Not classified (Based on available data, the classification criteria are not met).

Aspiration hazard: Not classified (Based on available data, the classification criteria are not met).

Information on other hazards: No additional information available.

12. ECOLOGICAL INFORMATION

Toxicity:

Ecology – general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute):

Not classified (Based on available data, the classification criteria are not met).

Hazardous to the aquatic environment, long-term (chronic):

Not classified (Based on available data, the classification criteria are not met).

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Persistence and degradability:

HYDROGEN PEROXIDE 35%:	
Persistence and degradability	Substance is inorganic

Hydrogen peroxide solution... % (7722-84-1):	
Persistence and degradability	Not rapidly degradable

DEMIN WATER (7732-18-5):	
Persistence and degradability	Not rapidly degradable

Bioaccumulative potential:

HYDROGEN PEROXIDE 35%:	
Bioaccumulative potential	Bioaccumulation unlikely

Mobility in soil:

HYDROGEN PEROXIDE 35%:	
Ecology – soil	Soluble in water

Results of PBT and vPvB assessment: No additional information available

Endocrine disrupting properties:

Adverse effects on the environment caused by endocrine disrupting properties:

The substance/mixture has no endocrine disrupting properties.

Other adverse effects: No additional information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Product/Packaging disposal recommendations: Dispose of contents/container to an approved waste disposal plant.

Additional information: Do not re-use empty containers.

HP Code:

HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.

HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration or inhalation exposure.

HP8 - "Corrosive:" waste which on application can cause skin corrosion.

HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

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14. TRANSPORT INFORMATION

In accordance with ADR / IMDG / IATA / ADN / RID:

ADR	IMDG	IATA	ADN	RID
UN number or ID number:				
UN 2014	UN 2014	Not regulated	UN 2014	UN 2014
UN proper shipping name:				
HYDROGEN PEROXIDE, AQUEOUS SOLUTION	HYDROGEN PEROXIDE, AQUEOUS SOLUTION	Not regulated	HYDROGEN PEROXIDE, AQUEOUS SOLUTION	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
Transport document description:				
UN 2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION, 5.1 (8), II, (E)	UN 2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION, 5.1 (8), II	Not regulated	UN 2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION, 5.1 (8), II	UN 2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION, 5.1 (8), II
		Not regulated		
Packing group:				
II	II	Not regulated	II	II
Environmental hazards:				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-H EmS-No. (Spillage): S-Q	Not regulated	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available.				

Special precautions for user:

Overland transport:

- Classification code (ADR): OC1
- Limited quantities (ADR): 1L
- Excepted quantities (ADR): E2
- Packing instructions (ADR): P504, IBC02
- Special packing provisions (ADR): PP10, B5
- Mixed packing provisions (ADR): MP15
- Portable tank and bulk container instructions (ADR): T7
- Portable tank and bulk container special provisions (ADR): TP2, TP6, TP24
- Tank code (ADR): L4BV (+)
- Tank special provisions (ADR): TU3, TC2, TE8, TE11, TT1

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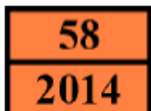
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Vehicle for tank carriage: AT
Transport category (ADR): 2
Special provisions for carriage - Loading, unloading and handling (ADR): CV24
Hazard identification number (Kemler No.): 58

Orange plates:



Tunnel restriction code (ADR): E
EAC code: 2P

Transport by sea:

Limited quantities (IMDG): 1L
Excepted quantities (IMDG): E2
Packing instructions (IMDG): P504
Special packing provisions (IMDG): PP10
IBC packing instructions (IMDG): IBC02
IBC special provisions (IMDG): B5
Tank instructions (IMDG): T7
Tank special provisions (IMDG): TP2, TP6, TP24
Stowage category (IMDG): D
Stowage and handling (IMDG): SW1
Segregation (IMDG): SGG16, SG16, SG59, SG72
Properties and observations (IMDG): Colourless liquid. Slowly decomposes, evolving oxygen; the rate of decomposition increases in contact with metals, except aluminium. In contact with combustible material may cause fire or explosion. Causes burns to skin, eyes and mucous membranes. Even though stabilised, these solutions may evolve oxygen.

Air transport: Not regulated

Inland waterway transport:

Classification code (ADN): OC1
Limited quantities (ADN): 1L
Excepted quantities (ADN): E2
Carriage permitted (ADN): T
Equipment required (ADN): PP, EP
Number of blue cones/lights (ADN): 0

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Rail transport:

Classification code (RID): OC1
Limited quantities (RID): 1L
Excepted quantities (RID): E2
Packing instructions (RID): P504, IBC02
Special packing provisions (RID): PP10, B5
Mixed packing provisions (RID): MP15
Portable tank and bulk container instructions (RID): T7
Portable tank and bulk container special provisions (RID): TP2, TP6, TP24
Tank codes for RID tanks (RID): L4BV(+)
Special provisions for RID tanks (RID): TU3, TC2, TE8, TE11, TT1
Transport category (RID): 2
Special provisions for carriage – Loading, unloading and handling (RID): CW24
Colis express (express parcels) (RID): CE6
Hazard identification number (RID): 58

Maritime transport in bulk according to IMO instruments: Not applicable

15. REGULATORY INFORMATION

Chemical safety assessment: No chemical safety assessment has been carried out.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.