

1 IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

1.1 Product identifier

Product Name: **Hyperox 35**

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

Bleach - For professional use only

Uses advised against:

Uses other than those identified are not recommended

1.3 Details of the supplier of the safety data sheet

Company Name: Gannon Chemicals Ltd
Ballindine, Claremorris
Co. Mayo, Ireland
Email address of SDS author: paul@gannonchemicals.ie
Emergency Phone Number: 094 9364011 DAY (Mon – Fri 9am to 5.30pm)

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Oxidizing liquids (Category 2), H272

Acute toxicity, Oral (Category 4), H302

Skin irritation (Category 2), H315

Serious eye damage (Category 1), H318

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Classification according to EU Directives 67/548/EEC or 1999/45/EC

O - Oxidising

C - Corrosive

For the full text of the R-phrases mentioned in this Section, see below.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger

Hazard statement(s)

H272 - May intensify fire; oxidiser.

H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H335 - May cause respiratory irritation.

Precautionary statement(s)

P220 Keep/Store away from clothing/ combustible materials.

P261 Avoid breathing vapours.

P280 Wear protective gloves/ eye protection/ face protection.

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 or doctor/physician.

Supplemental Hazard: None

Labelling according Regulation 67/548/EEC or 1999/45/EC
Xn Harmful R22

Risk phrases:

R22 Harmful if swallowed.
R37/38 Irritating to respiratory system and skin.
R41 Risk of serious damage to eyes.

Safety phrases:

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28a - After contact with skin, wash immediately with plenty of water.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

2.3 Other hazards

No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Product/Ingredient Name	CAS No.	Weight %	Classification 67/548/EEC	Regulation (EC) No 1272/2008 [CLP]
Hydrogen peroxide	7722-84-1	>35 -<50	O, C, R 5 - R 8 - R20/22 - R35	Ox. Liq. 1; H271 Acute Tox. 4; H302+H332 Skin Corr. 1A; H314

4 FIRST AID MEASURES

4.1 Description of first aid measures

- | | | |
|-------|------------------------------------|---|
| 4.1.1 | General Information | Immediately remove contaminated clothing. |
| 4.1.2 | Following Inhalation | Keep patient calm, remove to fresh air, and seek medical attention. |
| 4.1.3 | following skin contact | Wash thoroughly with soap and water. |
| 4.1.4 | Following Eye Contact | Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. |
| 4.1.5 | Following Ingestion | Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. |
| 4.1.6 | Self-protection of the first aider | |

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Eye irritation, skin irritation

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5 FIRE FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Suitable extinguishing media: water spray, dry powder, foam
Unsuitable extinguishing media:

5.2 Special hazards arising from the substance or mixture

Harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

5.3 Advice for fire-fighters

Special protective equipment: Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves.

5.4 Additional information

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Information regarding personal protective measures see, chapter 8.

6.2 Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

6.4 Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Measures to prevent fire and explosions:

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

General precautions:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with skin and eyes. Use only with adequate ventilation. Store at normal room temperature and keep container tightly closed. Keep out of reach of children. No special precautions necessary for protection against fire and explosion. Store away from strong acids.

7.2 Conditions for safe storage, including any incompatibilities

7.3 Specific end uses

No specific advice for end use available.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1. Control parameters

Components with occupational exposure limits

Component	CAS-No.	Value	Control parameters	Basis
Hydrogen peroxide	7722-84-1	OELV - 8 hrs (TWA)	1 ppm 1.5 mg/m ³	Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1
		OELV - 15 min (STEL)	2 ppm 3 mg/m ³	Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Chemical resistant protective gloves (EN 374)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): nitrile rubber (NBR) - 0.4 mm coating thickness.

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Wearing of closed work clothing is recommended. Handle in accordance with good industrial hygiene and safety practice.

Respiratory protection:

No special requirements under normal use conditions.

Recommended safety measures for handling the diluted product

Recommended maximum concentration (%): 1

Appropriate engineering controls:

The product is intended to be used in closed systems. Use only in well ventilated areas.

Appropriate organisational controls:

No special requirements under normal use conditions.

Personal protective equipment

Eye / face protection:

Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product.

Hand protection:

If the product is applied in a closed system, as recommended, no respiratory protection equipment will be required.

Body protection:

No special requirements under normal use conditions.

Respiratory protection:

If the product is applied in a closed system, as recommended, no respiratory protection equipment will be required.

Environmental exposure controls:

No special requirements under normal use conditions.

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PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

(a)	Form	Liquid
(b)	Colour	Clear
(c)	Odour	None
(d)	pH value(1% Solution)	3.5
(e)	Melting point/range (°C):	Not Determined
(f)	Initial boiling point/range (°C):	126 °C at 1,013 hPa
(g)	Decomposition temperature (°C)	Not Determined
(h)	Flash point (°C):	Not Determined
(i)	Ignition temperature (°C)	Not Determined

(j)	Vapour pressure (hPa) at ...°C)	31.1 hPa at 30 °C
(k)	Vapour density (air=1)	1.17
(l)	Density (g/cm ³) at 20°C	1.13
(m)	Bulk density (kg/m ³)	Not Determined
(n)	Water solubility (20°C in g/l)	Completely
(o)	Solubility(ies):	Not Determined
(p)	Partition coefficient	Not Determined
(q)	Viscosity, dynamic (mPa s):	Not Determined

9.2 Other information

Incompatible with strong acids

10 STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2 Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3 Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

10.4 Conditions to avoid

See MSDS section 7 - Handling and storage.

10.5 Incompatible materials

Substances to avoid: Halogens, Acids, Reactive Chemicals

10.6 Hazardous decomposition products

No hazardous decomposition products known.

11 TOXICOLOGICAL INFORMATION

11.2.2 Mixtures

No test data is available on the mixture.

Substance data, where relevant and available, are listed below

Substance	Acute toxicity	Skin corrosion/irritation	Serious eye damage/eye irritation	Respiratory or skin sensitisation
Hydrogen peroxide	Oral: LD50 = 1200 mg/kg (35%) Dermal: Slightly toxic. (rat) LD50 >2000 mg/kg	Mildly irritating after 4-hour exposure (rabbit)	Extremely irritating/corrosive (rabbit)	May cause respiratory irritation.

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.

12 ECOLOGICAL INFORMATION

Substance	Toxicity	Persistence and Degradability	Bioaccumulative potential	Mobility in soil
Hydrogen peroxide	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	Readily biodegradable. Will inhibit action of biological treatment plant.	Does not bioaccumulate.	No Data available

Results of PBT and vPvB assessment

The product does not fulfil the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

13 DISPOSAL

This product does not contain any prescribed substance under the Environmental Protection Act (Prescribed Processes and Substances) Regulations 1991 and is not classified as special waste under the Control of Substances (Special Waste) Regulations 1996, but is classified as controlled waste under the Environmental Protection Act 1990. For small quantities, dilute with water to at least 2.5% w/v (25 g/litre) and pour down a wastewater drain (foul sewer). Rinse out containers at least twice and recycle if facilities exist or dispose of as commercial waste. For larger quantities dispose of safely as commercial waste. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

Empty packaging

Dispose of observing national or local regulations.

Suitable cleaning agents:

Water, if necessary with cleaning agent.

14 TRANSPORT INFORMATION**ADR, RID, ADN, IMO/IMDG, ICAO/IATA**

14.1 UN number: 2014

14.2 UN proper shipping name:

HYDROGEN PEROXIDE, AQUEOUS SOLUTION

14.3 Transport hazard class(es):

Class: 5.1 (8)

Label(s): 5.1 (8)

14.4 Packing group: II

14.5 Environmental hazards:

Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user: None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: The product is not transported in bulk tankers.

Other relevant information:

ADR

Classification code: O1

Tunnel restriction code: E

Hazard identification number: 50

IMO/IMDG

EmS: F-H, S-Q

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code. Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

15 REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

Ingredients according to EC Detergents Regulation 648/2004

Oxygen-based bleaching agents 30 - 50%

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16 OTHER INFORMATION

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.

Classification procedure

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

Abbreviations and acronyms:

- STOT - Specific Target Organ Toxicity
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate

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