

1 IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

1.1 Product identifier

Product Name: **Peracetic Acid 5**

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

Non Rinse Sanitiser, Food Grade Disinfectant - 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

Skin Corrosion/Irritation: Category 1 (H314)
Serious Eye Damage/Eye Irritation: Category 1 (H318)
Specific Target Organ Toxicity (Single Exposure): Category 3 (H335)
Organic Peroxide: Type F (H242)

for the full text of the H-Statements mentioned in this Section, see below.

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

C; R34

For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word **Danger**

Hazard statement(s)

H314 - Causes severe skin burns and eye damage

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H242 - Heating may cause a fire

Precautionary statement(s)

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P220 - Keep/Store away from clothing/combustible materials
 P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
 P234 - Keep only in original container

Precautionary Statements - Response

P370 + P378 - IN CASE OF FIRE: Use water to extinguish
 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
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
 P363 - Wash contaminated clothing before reuse
 P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
 P312 - Call a POISON CENTER or doctor if you feel unwell
 P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage

P411 - Store at temperatures not exceeding 30 °C/ 86 °F
 P410 - Protect from sunlight

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]
Acetic Acid	64-19-7	10 - 20	C; R35	Skin Corr. 1B; H314: 25 % ≤ C < 90 % Skin Corr. 1A; H314: C ≥ 90 % Eye Irrit. 2; H319: 10 % ≤ C < 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 %
Hydrogen peroxide	7722-84-1	20 – 25	O, C, R 5 - R 8 - R20/22 - R35	Ox. Liq. 1; H271 Acute Tox. 4; H302+H332 Skin Corr. 1A; H314
Peracetic Acid	79-21-0	5 - 6	O; R7 R10 C;R35 Xn;R20/21/22 N;R50	Flam. Liq. 3 - H226 Org. Perox. D - H242 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Corr. 1A - H314 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

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

General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation

Irritation of nose, throat and airway. Coughing, chest tightness, feeling of chest pressure.

Ingestion

May cause chemical burns in mouth and throat.

Skin contact

Burning pain and severe corrosive skin damage. May cause serious chemical burns to the skin.

Eye contact

Severe irritation, burning and tearing. Prolonged contact causes serious eye and tissue damage.

5 FIRE FIGHTING MEASURES

5.1 Extinguishing media:

Oxidising - Supports combustion. Extinguish with the following media: Water spray. Foam, carbon dioxide or dry powder.

5.2 Special hazards arising from the substance or mixture

Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours. If involved in fire, may decompose yielding oxygen which will support combustion. Oxidising.

5.3 Advice for fire-fighters

Protective actions during firefighting

Cool containers exposed to flames with water until well after the fire is out.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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 | Ensure there is sufficient ventilation of the area. Avoid inhalation of vapours. |
| 7.2 | Conditions for safe storage, including any incompatibilities | Store at normal room temperature and keep container tightly closed. Keep out of reach of children. Keep away from flammable and combustible materials. Protect from light. Keep away from heat and sources of ignition i.e., steam pipes, radiant heaters, hot air vents or welding sparks. |
| 7.3 | Incompatible Materials | Oxidizing agents; Strong reducing agents; Combustible materials; Heavy metals |

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1. Control parameters

Component	CAS-No.	Value	Control parameters	Basis
Hydrogen peroxide	7722-84-1	OELV - 8hrs (TWA) OELV - 15min (STEL)	1 ppm 1.5 mg/m ³ 2 ppm 3 mg/m ³	Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1
Acetic Acid	64-19-7	OELV - 8hrs (TWA) OELV - 15min (STEL)	10 ppm 25 mg/m ³ 15 ppm 37 mg/m ³	Ireland. List of Chemical Agents and Occupational Exposure Limit Values - Schedule 1
Peracetic Acid	79-21-0	OELV - 15min (STEL)	0.4 ppm	ACGIH

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.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

(a)	Form	Liquid
(b)	Colour	Clear
(c)	Odour	Vinegar
(d)	pH value(1% solution)	2.5
(e)	Melting point/range (°C):	Not Determined
(f)	Initial boiling point/range (°C):	Not Determined
(g)	Decomposition temperature (°C)	Not Determined
(h)	Flash point (°C):	Not Determined
(i)	Ignition temperature (°C)	Not Determined
(j)	Vapour pressure (hPa) at ...°C)	Not Determined
(k)	Vapour density (air=1)	Not Determined
(l)	Density (g/cm ³) at 20°C	1.10
(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 bases

10 STABILITY AND REACTIVITY

10.1 Reactivity

Reactive and oxidizing agent. Organic peroxide.

10.2 Chemical stability

Stable under recommended storage conditions. Contamination or heat could initiate decomposition.

10.3 Possibility of hazardous reactions

May produce explosive reactions with Acetic Anhydride.

10.4 Conditions to avoid

See SDS section 7 - Handling and storage.

10.5 Incompatible materials

Substances to avoid: Oxidizing agents; Strong reducing agents; Combustible materials; Heavy metals.

10.6 Hazardous decomposition products

Acetic acid and oxygen that supports combustion.

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
Acetic Acid	Oral: LD50 = 3310mg/kg Dermal: (rabbit) LD50 1060 mg/kg	Corrosive! Damages skin	Corrosive! Damages eyes.	As the substance is corrosive, conducting sensitization studies is not feasible.
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.
Peracetic Acid	Oral: LD50 = 263 mg/kg Dermal: (rat) LD50 1200 mg/kg	Experimental/calculated data: Skin corrosion/irritation rabbit: non-irritant	Serious eye damage/irritation rabbit: irreversible damage	Experimental/calculated data: Guinea pig maximization test guinea pig: Non-sensitizing

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
Acetic Acid	Toxicity to fish: 96 hr. LC50 Pimephales promelas: 79mg/L: 96 hr. LC50 Lepomis macrochirus: 75mg/L:	Inorganic substance, therefore biodegradation testing is not applicable.	Accumulation in organisms is not to be expected.	No Data Available
Hydrogen peroxide	Toxicity to fish: LC50 (96 h) 1 - 10 mg/l, Leuciscus idus EC50 (48 h) 1 - 10 mg/l EC50 (72 h) 1 - 10 mg/l	Elimination information: >= 90 % Bismuth- active substance. Readily biodegradable	Accumulation in organisms is not to be expected.	The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is possible.
Peracetic Acid	Toxicity to fish: 96 h LC50 Oncorhynchus mykiss (rainbow trout) 0.53 - 10 mg/l	Elimination information: >= 90 % Bismuth- active substance. Readily biodegradable	Accumulation in organisms is not to be expected.	The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is possible.

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.

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: 3149

14.2. UN proper shipping name

Proper shipping name (ADR/RID) HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

Proper shipping name (IMDG) HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

Proper shipping name (ICAO) HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

Proper shipping name (ADN) HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED

14.3. Transport hazard class(es)

ADR/RID class Division 5.1: Oxidizing substances.

ADR/RID subsidiary risk Class 8: Corrosive substances.

ADR/RID label 5.1 & 8

IMDG class Division 5.1: Oxidizing substances.

IMDG subsidiary risk Class 8: Corrosive substances.

ICAO class/division Division 5.1: Oxidizing substances.

ICAO subsidiary risk Class 8: Corrosive substances.

14.4. Packing group

ADR/RID packing group II

IMDG packing group II

ICAO 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: C1

Tunnel restriction code: E

Hazard identification number: 80

IMO/IMDG

EmS: F-A, S-B

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.

15 REGULATORY INFORMATION

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

Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII): Not applicable.

Ingredients according to EC Detergents Regulation 648/2004

No Information

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16	OTHER INFORMATION
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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

Date **08/01/2019**

Revision Number: 7

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