

1 IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

1.1 Product identifier

Product Name: **Fermo Rinse**

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

Rinse Aid, for Self Clean Ovens - 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

Eye irritation (Category 2), H319

Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336 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

F Highly flammable R11

Xi Irritant R36, R67

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: Warning

Hazard statement(s)

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statement(s)

P261 Avoid breathing vapours.

P280 Wear protective gloves/protective clothing/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.

Supplemental Hazard - None

Labelling according Regulation 67/548/EEC or 1999/45/EC

Indication of danger

Xi – Irritant

2.2 Label elements

Xi – Irritant

Risk phrases:

R41 - Risk of serious damage to eyes.

R67 - Vapours may cause drowsiness and dizziness.

Safety phrases:

S23d - Do not breathe spray.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S39 - Wear eye/face protection

S51 - Use only in well-ventilated areas.

Further indications on the label:

Rinse and dry hands after use. For prolonged contact, protection for the skin may be necessary.

R36 - Irritating to eyes.

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]
Propan-2-ol	67-63-0	5 - 10	F; R11 Xi; R36, R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336
C12-15-branched and linear Alcohol, Ethoxylated and Propoxylated	120313-48-6	5 – 15	Xi: R36/38	Eye dam./Irr. 2: H319 Skin Irrit. 2: H315
Citric Acid	77-92-9	1 – 5	Xi, R36	Eye Irrit. 2; H319

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: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media:

5.2 Special hazards arising from the substance or mixture

Harmful vapours

Evolution of fumes/fog, Carbon oxides. 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. Ensure adequate ventilation.

Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. 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

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| 7.1 | Precautions for safe handling | Ensure there is sufficient ventilation of the area. |
| 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. No special precautions necessary for protection against fire and explosion. Store away from strong acids. |
| 7.3 | Precautions for safe handling | For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed. |

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1. Control parameters

Components with workplace control parameters

Component	CAS No.	Value	Control Parameters	Basis
Propan-2-ol	67-63-0	OELV - 8 hrs (TWA)	200 ppm	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:

Impervious clothing, Flame retardant antistatic protective clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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
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9.1. Information on basic physical and chemical properties

(a)	Form	Liquid
(b)	Colour	Blue
(c)	Odour	Alcohol-like
(d)	pH value(1% solution)	4.0
(e)	Melting point/range (°C):	Not Determined
(f)	Initial boiling point/range (°C):	82 °C - lit.
(g)	Decomposition temperature (°C)	Not Determined
(h)	Flash point (°C):	>38 °C
(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	0.98
(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	log Pow: 0.05
(q)	Viscosity, dynamic (mPa s):	Not Determined

9.2 Other information

This product with a flashpoint between 21 °C and 60 °C does not support combustion.

10	STABILITY AND REACTIVITY
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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
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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
Propan-2-ol	LD50 Oral - rat - 5,045 mg/kg LC50 Inhalation - rat - 8 h - 16000 ppm LD50 Dermal - rabbit - 12,800 mg/kg	Skin - rabbit Result: Mild skin irritation	Eyes - rabbit Result: Eye irritation - 24 h	No Data Available
C12-15-branched and linear Alcohol, Ethoxylated and Propoxylated	LD50 rat (oral): > 300 - 2,000 mg/kg LC50 rat (by inhalation): not determined LD50 rat (dermal): not determined	Skin corrosion/irritation rabbit: Slightly irritating. (OECD Guideline 404)	Serious eye damage/irritation rabbit: Irritant. (OECD Guideline 405)	No Data Available
Citric Acid	LD50 Oral - Rat - 5,400 mg/kg (OECD Test Guideline 401) LD50 Dermal - Rat - > 2,000 mg/kg (OECD Test Guideline 402) Serious eye damage/eye irritation	Skin corrosion/irritation Skin - Rabbit Result: Mild skin irritation (OECD Test Guideline 404)	Eyes - Rabbit Result: Irritating to eyes. (OECD Test Guideline 405)	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

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
Propan-2-ol	LC50 - Pimephales promelas (fathead minnow) 9,640.00 mg/l 96h EC50 - Daphnia magna (Water flea) - 5,102.00 mg/l - 24 h	No Data Available	No Data Available	No Data Available
C12-15-branched and linear Alcohol, Ethoxylated and Propoxylated	Toxicity to fish: LC50 (96 h) > 1 - 10 mg/l, Leuciscus idus (static) Aquatic invertebrates: EC50 (48 h) > 1 - 10 mg/l, Daphnia magna (semistatic) Microorganisms/E ffect on activated sludge:	Elimination information: >= 90 % Bismuth-active substance (mod. OECD 301E) > 60 % BOD of the ThOD (28 d) (OECD Guideline 301 F) Readily biodegradable.	Bioaccumulation potential: Accumulation in organisms is not to be expected.	Volatility: The substance will not evaporate into the atmosphere from the water surface. Adsorption in soil: Adsorption to solid soil phase is possible.

	EC10 > 1,000 mg/l, activated sludge (DEV-L2)			
Citric Acid	LC50 - Leuciscus idus melanotus - 440 mg/l - 48 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates static test - Daphnia magna (Water flea) - 1,535 mg/l - 24 h	No Data Available	No Data Available	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.

13.1 Waste treatment methods

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

14 TRANSPORT INFORMATION

ADR, RID, ADN, IMO/IMDG, ICAO/IATA

14.1 UN number: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods

14.3 Transport hazard class(es): Non-dangerous goods

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods

14.6 Special precautions for user: Non-dangerous goods

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

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

Amphoteric surfactants, anionic surfactants, non-ionic surfactants 5 – 10%

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

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