GFW HAND SANITIZER

Product Information and Safety Data Sheet (SDS)

1. IDENTIFICATION OF SUBSTANCE / PREPARATION / COMPANY DETAILS

PRODUCT NAME:	**GFW HAND SANITIZER**
DESCRIPTION:	A clear, colourless, alcohol-based gel used for sanitizing hands (produced in line with the WHO-recommended handrub formulation)
APPLICATION:	Hand Sanitizer
SUPPLIER:	GOOD FOOD WINES LTD
	No. 3 Warehouse
	Whitewall Road
	Medway City Estate
	Strood
	Kent ME2 4EW
	Tel: +44 (0)1634 968130 Fax: +44 (0)1634 716617
	Email: info@goodfoodwines.com Web: www.goodfoodwines.com
EMERGENCY TELEPHONE:	Tel: +44 (0)1634 290592 Mon-Fri 07.30-17.00
Product form:	Mixtures
Type of product:	Human Hygiene Biocidal Product
Recommended use:	Industrial
Available Pack format(s):	5-litres

2. HAZARDS IDENTIFICATION

Flammable
Flam.Liq. 2, H226 Flammable liquid and vapour
Eye Irrit. 2, H319 Causes serious eye irritation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

3. COMPOSITION/ INFORMATION ON INGREDIENTS

General Information

- In line with the WHO-recommended handrub formulation
- For external use only
- Composition: ethanol, glycerol and hydrogen peroxide
- Avoid contact with eyes
- Keep out of the reach of children
- Use: Apply a palmful of alcohol-based handrub and cover all surfaces of the hands. Rub hands until dry
- Flammable: keep away from flame and heat

INGREDIENTS

Classification 1272/2008/EC (CLP)				**Specific Concentration Limits**
Name	**EC No.**	**CAS No.**		
Ethanol; Ethyl Alcohol (96% v/v)	200-578-6	64-17-5	Flam.Liq. 2, H225 Eye Irrit. 2, H319	70% v/v Flam.Liq. 3, H226
Glycerol	200-289-5	56-81-5	NC Not Classified	1.45% v/v
Hydrogen Peroxide soln. (35% w/w)	231-765-0	7722-84-1	H314, H335 H302+H332	0.125% v/v

The texts for all Risk & Safety Phrases are detailed in Section 16.

4. FIRST AID MEASURES

Inhalation:	Intoxicating if inhaled for prolonged period. Remove subject from source of exposure to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Seek medical attention.
Skin Contact (other than hands):	Wash with water and soap as a precaution. Get medical attention if symptoms occur.

	May be absorbed by the skin and have a transient drying effect or cause mild dermatitis with prolonged or repeated contact. Wash off with plenty of water. Change clothing as necessary.
Eye Contact:	Causes serious eye irritation. In case of contact with eyes, rinse cautiously with fresh water and/or eye-wash solution for several minutes. If possible, remove contact lenses. Continue rinsing. Seek medical attention if symptoms persist.
Ingestion:	Intoxicating if ingested. (If ingested in undiluted form, it may have a severe drying effect on the mucous membranes of the mouth and throat. May be harmful to health if ingested in large quantities - seek immediate medical attention). Effects may be manifested as severe headache or nausea, and can lead to reduced judgment, dizziness, deficits in perception and coordination, alertness and reaction time. Vomiting may occur spontaneously, but do NOT induce unless directed to do so by medical personnel. Rinse mouth thoroughly with water. Do not give anything by mouth to an unconscious person. Seek medical attention.
5. FIRE-FIGHTING MEASURES	
Specific Hazards:	Flammable liquid and vapour.
Unusual fire / explosion hazards:	Flammable liquid and vapour. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Vapours may form explosive mixtures with air. Vapours are heavier than air and may accumulate in low or confined spaces. Vapours may cause flash fires, or travel to a source of ignition and flash back. Vapours may re-ignite after fire is extinguished. Containers exposed to fire/heat may explode. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Extinguishing Media:	In case of fire use dry chemical, alcohol foam, all-purpose AFFF, water spray or carbon dioxide. Fires should be tackled by qualified personnel only.
Unsuitable Extinguishing Media:	Do NOT use water jet. (Water may be used to cool fire-exposed closed containers and surrounding areas to prevent spread and risk of explosion, or to disperse vapour). Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Protective Measures:	Appropriate positive pressure self-contained breathing apparatus with full face mask and full protective clothing.
6. ACCIDENTAL RELEASE MEASURES	
Personal Protection:	Shut of all sources of ignition. Stop leaks if this can be achieved without risk. Provide adequate ventilation or respiratory protection. Wear suitable eye protection. (See Section 8 of this Safety Data Sheet).
Environmental:	Prevent large quantities from entering the drainage system. If risk of water pollution occurs, notify appropriate authorities.
Spillage Clean-Up:	Small spillages: Absorb with inert (non-combustible) material, sand or other suitable material. Wash spillage site with water. Large quantities: Contain and absorb with sand, diatomaceous earth or other inert material. Collect and arrange disposal according to local regulations. Isolate and keep unnecessary personnel out of the area. Wash spillage site thorougly with water. Use spark-proof tools and equipment.
7. HANDLING & STORAGE	
Handling Requirements:	Handle in accordance with good industrial hygiene and safety practice. Avoid sources of heat / ignition / spark in areas of use or storage. Take measures to prevent electrostatic charges by earthing and bonding containers, lines and equipment during transfer to reduce possibility of static spark-initiated fire or explosion. Avoid ingestion and direct eye contact. Avoid prolonged inhalation.
Storage Conditions:	Keep containers closed. Store in a cool dry well-ventilated place, out of direct sunlight and away from sources of heat, ignition and incompatible substances. Take care to prevent spills, waste and minimize release to the environment. Once opened, re-seal containers tightly.

Packaging:	Store in original packaging.
8. EXPOSURE CONTROL/PERSONAL PROTECTION	
Exposure Limit Values (based on primary ingredient):	UK workplace exposure limit (WEL) (based on azeotropic ethanol): Long-term exposure limit: 8-hour TWA ref. period: 1000 ppm (1920 mg/m^{-3}) Short-term exposure limit (15 min. ref. period): Not applicable.
Engineering Measures:	Ensure adequate ventilation. Provide eyewash stations.
Respiratory Protection:	In case of inadequate ventilation, use suitable respirator.
Hand Protection:	May have a transient drying effect on skin with prolonged or repeated contact. Wear protective gloves (nitrile, neoprene, butyl rubber) for prolonged exposure.
Eye Protection:	Advise safety goggles / face mask.
Skin Protection:	Avoid prolonged or repeated contact with skin. Wash with water and soap as a precaution.
9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance:	Liquid (colourless)
Odour:	Alcohol (odourless)
Solubility in water:	Fully miscible in water
pH Value:	6.5 - 8.5
Relative Density g/cm3	0.88
Initial Boiling Point °C:	79
Flammability:	Flammable
Flash Point:	25°C
10. STABILITY AND REACTIVITY	
Stability:	Stable under recommended conditions of containment and storage.
Conditions to Avoid:	Sources of ignition; high temperatures.
Materials to Avoid:	Strong oxidising agents, acids. Aluminium (corrodes in contact with ethanol). May degrade non-butyl rubber.
Hazardous Decomposition Products:	Oxides of carbon (CO, CO_2) (gaseous combustion products).
11. TOXICOLOGICAL INFORMATION	
Ethanol and Glycerol have a low order of acute toxicity by all routes of exposure. Hydrogen Peroxide (0.125%) is classified as harmful if swallowed or if inhaled (H302+H332).	
Primary Routes of Entry:	Ingestion, inhalation.
Ethanol (70% v.v): Inhalation: Skin Contact: Eye Contact: Ingestion:	 Lowest robust reported value (inhalation): LC50 of >60,000ppm (114,000 mg/m3), 1 hour, mouse). Ethanol is neither a skin irritant nor sensitizer. Moderate eye irritant (transient). Lowest robust reported value (oral): LD_{50} of 8300mg/kg (mouse)
Glycerol (1.45% v/v): Inhalation: Skin Contact: Eye Contact: Ingestion:	 LC_{50} vapours 2.75 mg/l (rat) LD_{50} of 56,750 mg/kg) (guinea pig) May cause temporary eye irritation. Profuse watering of the eyes. Redness. LD_{50} of 27,200 mg/kg) (rat)
Hydrogen Peroxide (0.125% v.v): Inhalation: Skin Contact: Eye Contact: Ingestion:	 ATE inhalation (gases ppm) 12,857.14 ATE inhalation (vapours mg/l) 31.43 ATE inhalation (dusts/mists mg/l) 4.29 No data Tests on rabbits, OECD Guideline 405, Acute eye Irritation / Corrosion. Extremely irritating; 10% w/w solution. ATE oral (mg/kg) 1,428.57
12. ECOLOGICAL INFORMATION	
Ecotoxicity:	Neglible ecotoxity. Large volume escapes of high-strength alcohol to water systems may pose short-term local effects to aquatic organisms (and low order of acute toxicity with LC_{50}/EC_{50} values greater than 1000 mg/l).

Mobility:	Volatises into air. Miscible in water. Readily absorbed into soil.
Persistence:	Biodegradable.
Bioaccumulation potential:	Bioaccumulation is unlikely.
Other Adverse Effects:	-

13. DISPOSAL CONSIDERATIONS

Disposal of product:	According to local authority requirements.
Other:	Consider rinsing and recycling for non-returnable containers.

14. TRANSPORT INFORMATION (ADR /RID)

UN number(s):	1987	
Proper shipping name(s):	ALCOHOLS, N.O.S. (Ethanol)	
Class:	3	Flammable liquids
Classification Code:	F1	Flammable liquids (having a flash point of or below 60°C)
Packing Group:	III	Flash point (closed cup) ≥23°C ≤ 60°C; initial boiling point >35°C
ADR Special provisions:	(see texts detailed in Section 16.)	

15. REGULATORY INFORMATION

Risk & Safety Phrases :	1272/2008/EC (CLP)
	H226: Flammable liquid and vapour H319: H319 Causes serious eye irritation
	P233: Keep container tightly closed
	P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
EU Regulations & Data Sources:	Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006), and based on available data. European Chemicals Agency, http://echa.europa.eu/ The Dangerous Goods List and the Limited Quantities Exceptions (Part 3).

16. OTHER INFORMATION

Risk & Safety Phrases (according to Regulation (EC) No. 1272.2008 [CLP]

Hazard Pictogram (CLP)

Signal word (CLP)	Danger
Hazardous ingredients	Ethanol, hydrogen peroxide
Hazard Statements (CLP)	H226 – Flammable liquid and vapour H319 Causes serious eye irritation

Flam.Liq. 2, H226 Flammable liquid and vapour
Eye Irrit. 2, H319 Causes serious eye irritation

Precautionary statements (CLP):
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P241 - Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use only non-sparking tools; P243 Take precautionary measures against static discharge.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 – If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P370+P378 - In case of fire: Use media other than water to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents/container to an approved waste disposal plant.

Definitions:
F: Flammable liquids (chemicals that may catch fire in contact with air, only need brief contact with an ignition source, have a very low flash point or evolve highly flammable gases in contact with water).
Flam. Liq. 2: flash point < 23°C and initial boiling point > 35° (1272/2008/EC)
Flam. Liq. 3: Flash point (closed cup) ≥23°C ≤ 60°C; initial boiling point >35°C
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE: Acute Toxicity Estimate.
NOS: Not otherwise specified.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.

General information:
Use biocides safely. Always read the label and product information before use. Only trained personnel should use this material. Note: this datasheet is not intended to be a replacement for a full risk assessment, as carried out by competent persons.

ADR Special provisions (Section 14):
Hazard identification number: 30 = flammable liquid (flash point between 23°C and 60°C).
Class 3, UN packing group III
Special provisions: 274
Limited Quantities 1L
Packaging & IBCs: P001, IBC02.
Portable Bulk containers: TP1, TP8, TP28. Portable Tank: T7.
Note: Hydrogen peroxide aqueous solutions with less than 8% hydrogen peroxide are not subject to these Regulations.

Notice: The information in this document is considered to be accurate at its time of issue and in line with the WHO-recommended formulation for Hand Sanitizer and other reputable sources, but does not claim to be exhaustive and should be used for guidance only, and in conjunction with the user's own assessments of suitability and safety for their particular purposes. Good Food Wines Ltd shall not be held liable for any injury or damages resulting from the handling of or contact with the product.