Product	Integrity Hand Sanitising Liquid
Revision date	25 March 2020
Revision	1

Safety Data Sheet (SDS)

according to Regulation (EC) No. 1907/2006

Section 1: Identification of the substance/preparation and of the company/undertaking

1.1 Product identifier

Product name	**Integrity Hand Sanitising Liquid**
Product no.	**608-0001**
Synonyms, Trade names	No information available.

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

Identified uses	Hand Sanitisation, Surface Sanitisation.
Uses advised against	Any other purpose.

1.3 Details of the supplier of the safety data sheet

Supplier	Integrity Cleanroom Integrity House Easlea Road Bury St Edmunds Suffolk IP32 7BY T: +44 (0)1473 836 205
Contact person	info@integritycleanroom.com

1.4 Emergency telephone number

Emergency telephone **National emergency telephone number**	+44 (0)1473 836 205, 9am – 5 pm, Monday to Friday. Outside those hours, contact National Poisons Information Centre, Beaumont Hospital. Members of Public: +353 (1) 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week) Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and chemical hazards	Flam. Liq 2- H225
Human health	Eye Irrit.2A - H319
Environment	Not classified

2.2 Label elements

Contains Hydrogen peroxide 1 - 3%

Label in accordance with (EC) no. 1272/2008

Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

Precautionary statements

Prevention
P210 Keep away from heat/ sparks/open flames/hot surfaces. — No smoking.

Response
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 water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.
Storage
P403 + P235 Store in a well-ventilated place. Keep cool.
Disposal
P501 Dispose of contents/ container to a licensed hazardous waste disposal facility in accordance with all applicable regulations.

2.3 Other hazards

None known.

Section 3: Composition/identification of ingredients

3.1 Substance

Not applicable.

3.2 Mixtures

Name	Product identifier	Reg. EU 1272/2008	%
ETHANOL	CAS-No.: 64-17-5 EC No.: 200-578-6 REACH Reg No.: 01-2119457610-43-xxxx	Eye Irrit.2A - H319, Flam. Liq 2- H225	60-80%
glycerol	CAS-No.: 56-81-5 EC No.: 200-289-5 REACH Reg No.: 01-2119471987-18-XXXX		1-5%
Hydrogen peroxide 1 - 3%	CAS-No.: 7722-84-1 EC No.: 231-765-0 REACH Reg No.: 01-2119485845-22-XXXX	Acute Tox 4 - H302, Acute Tox 4 - H332, Skin Corr. 1A - H314, Eye Dam. 1 - H318, Self-react. F - H242, STOT SE 3 - H335, Ox Liq 1 - H271	0.1-0.9%

The full text for all hazard statements are displayed in section 16.

Composition comments The data shown are in accordance with the latest EC Directives.

Section 4: First aid measures

4.1 Description of first aid measures

General information Provide general first aid, rest, warmth and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. First aid personnel must be aware of own risk during rescue.

Inhalation If this product is inhaled, move the exposed person to fresh air promptly. Seek medical attention if symptoms persist.

Ingestion Rinse mouth thoroughly. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical advice (show the label where possible).

Skin contact In the case of unintended skin contact or spill: Remove contaminated clothing immediately and wash skin with soap and water. Wash contaminated clothing before reuse. Get medical attention if irritation develops or persists.

Eye contact If this product contacts the eyes, gently flush eyes with water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Remove contact lenses if present and easy to do so. Avoid contaminating unaffected eye. Seek medical advice.

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 Inhalation of high concentrations may cause drowsiness, headache, blurred vision, dizziness or nausea.

Ingestion	May cause nausea, headache, dizziness and intoxication.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.
Eye contact	Causes serious eye irritation. Irritating and may cause redness and pain.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to the physician	Treat symptomatically.

Section 5: Fire-fighting measures

5.1 Extinguishing media

Extinguishing media	Use fire-extinguishing media appropriate for surrounding materials. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	High volume water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products	During fire, toxic gases (CO, CO2) are formed.
Unusual fire & explosion hazards	Highly flammable liquid and vapour. Flammable vapours may spread to sources of ignition or accumulate in confined spaces.
Specific hazards	In the event of damage to packaging, floors may become slippery, avoid falls. Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special fire fighting procedures	If possible, fight fire from protected position. Avoid breathing fire vapours. Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water if safe to do so. Dike and collect extinguishing water.
Protective equipment for firefighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Eliminate all sources of ignition. Avoid inhalation of vapours and contact with skin and eyes. Do not touch or walk through spilled material. If necessary evacuate surrounding areas.
For emergency responders	Follow safe handling advice and personal protective equipment recommendations for normal use of product.

6.2 Environmental precautions

Environmental precautions	Do not discharge into drains, water courses or onto the ground. Prevent material from entering sewers, waterways, or low areas.

6.3 Methods and material for containment and cleaning up

Spill clean up methods	Stop leak if possible without risk. Wear appropriate personal protective equipment as specified in Section 8. Eliminate all ignition sources. Absorb spillage with non-combustible, inert absorbent material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Wash thoroughly after dealing with a spillage. Floors may become slippery, avoid falls.

6.4 Reference to other sections

Reference to other sections	See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Handling
Read and follow manufacturer's recommendations. Use proper personal protection when handling (refer to Section 8).
Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Do not eat, drink or smoke when using the product. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions
Keep locked up and out of reach of children. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from sources of ignition. Keep away from incompatible materials (see section 10).

Storage class
Flammable liquid storage.

7.3 Specific end use(s)

Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

Usage description
Use only according to directions. Replace and tighten cap after use.

Section 8: Exposure controls/Personal protection

8.1 Control parameters

Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
ETHANOL	OEL			1000 ppm		
Hydrogen peroxide 1 - 3%	OEL	1 ppm	1.5 mg/m^3	2 ppm	3 mg/m^3	

Ingredient comments
Ireland, Occupational Exposure Limits 2020.

8.2 Exposure Controls

Protective equipment

Engineering measures
Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.
Where necessary use lighting and electrical equipment designed for use in atmospheres where flammable vapours are present, and which can direct static electricity by grounding equipment.

Respiratory equipment
Respiratory protection not required in normal conditions. In case of large scale spill in confined area: Where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN143 should be used, and suitable respirator cartridges as a backup to engineering controls. Recommended: Respirator with combination filter for organic vapour/particulate (EN 141). ABEK (EN 14387). Consult manufacturer for specific advice.

Hand protection
Not normally required, however helpful for prolonged or repeated contact. (Suggested suitable materials for longer, direct contact or splash contact) Suggested material: Butyl-rubber. Layer thickness: 0.7 mm. Breakthrough time: >480 minutes.
Nitrile rubber. Layer thickness: > 1 mm. Breakthrough time: >480 minutes. Consult manufacturer for advice. Recommended properties: Impervious gloves in accordance with standard EN374.
Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Eye protection
If there is a risk of eye contact: Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU). Safety glasses with side shields.

Other protection
Protective clothing not required for normal use of the product. Protective clothing should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Hygiene measures
Observe normal hygiene standards. When using do not eat, drink or smoke.

Process conditions
Ensure that eye flushing systems and safety showers are located close by in the work place.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Colourless.
Odour	Strong alcohol smell.
Odour threshold - lower	No information available as testing has not been completed.
Odour threshold - upper	No information available as testing has not been completed.
pH-Value, Conc. Solution	No information available as testing has not been completed.
pH-Value, Diluted solution	No information available as testing has not been completed.
Melting point	(Ethanol 96%) -114.49°C.
Initial boiling point and boiling range	(Ethanol 96%) 78.2°C.
Flash point	17.5°C, 80% ethanol solution. (literature value)
Evaporation rate	No information available as testing has not been completed.
Flammability state	Highly flammable liquid and vapour.
Flammability limit - lower(%)	(Ethanol) 2.5 vol %.
Flammability limit - upper(%)	(Ethanol) 13.5% vol %.
Vapour pressure	No information available as testing has not been completed.
Vapour density (air=1)	No information available as testing has not been completed.
Relative density	No information available as testing has not been completed.
Bulk density	780 kg/m^3.
Solubility	Soluble in water.
Decomposition temperature	No information available as testing has not been completed.
Partition coefficient; n-Octanol/Water	No information available as testing has not been completed.
Auto ignition temperature (°C)	The product is not self-igniting.
Viscosity	No information available as testing has not been completed.
Explosive properties	Not classified as explosive.
Oxidising properties	The product does not meet the criteria to be classified as oxidising.

9.2 Other information

Molecular weight	The product is a mixture, molecular weight data is not required.
Volatile organic compound	No information available as testing has not been completed.
Other information	None noted.

Section 10: Stability and reactivity

10.1 Reactivity

Reactivity	No specific reactivity hazards associated with this product. See section 10.3 for further information.

10.2 Chemical stability

Stability	Stable under normal temperature conditions and recommended use

10.3 Possibility of hazardous reactions

Hazardous reactions Highly flammable liquid and vapour.
Hazardous polymerisation Hazardous polymerisation is not expected to occur under normal temperatures and pressures.
Polymerisation description Not applicable.

10.4 Conditions to Avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time. Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials

Materials to avoid Keep away from incompatibles such as oxidizing agents, acids, alkalis.

10.6 Hazardous decomposition products

Hazardous decomposition products Fire creates: Toxic gases/vapours/fumes of carbon monoxide (CO), and carbon dioxide (CO2).

Section 11: Toxicological information

11.1 Information on toxicological effects

Toxicological information Not classified based on available information.

Acute toxicity (Oral LD50) No information available as testing has not been completed.
Acute toxicity (Dermal LD50) No information available as testing has not been completed.
Acute toxicity (Inhalation LD50) No information available as testing has not been completed.

Serious eye damage/irritation Causes serious eye irritation.

Skin corrosion/irritation The product is not classified as a skin corrosion/irritation hazard.

Respiratory sensitisation The product is not classified as a respiratory hazard.
Skin sensitisation The product is not classified as a skin sensitisation hazard.

Germ cell mutagenicity The product is not classified as a mutagen.

Carcinogenicity The product is not classified as a carcinogen hazard.

Specific target organ toxicity - Single exposure:
STOT - Single exposure The product is not classified as a specific target organ toxin.
Specific target organ toxicity - Repeated exposure:
STOT - Repeated exposure The product is not classified as a specific target organ toxin.

Inhalation Inhalation of high concentrations may cause drowsiness, headache, blurred vision, dizziness or nausea.
Ingestion May cause nausea, headache, dizziness and intoxication.
Skin contact Prolonged contact may cause redness, irritation and dry skin.
Eye contact Causes serious eye irritation. Irritating and may cause redness and pain.
Waste management When handling waste, consideration should be made to the safety precautions applying to handling of the product. Since emptied containers contain product residue, follow label warnings even after container is emptied.

Routes of entry Eye and skin contact, ingestion or inhalation.
Target organs Eyes, skin, digestive system, respiratory system, central nervous system.

Aspiration hazards: The product is not classified as an aspiration hazard.
Reproductive toxicity: The product is not classified as a reproductive hazard.

Name	LD50 oral	LD50 dermal	LD50 inhalation
Hydrogen peroxide 1 - 3%	1193.00mg/kg Rat	>2000.00mg/kg Rabbit	>0.17mg/l (vapours) Rat 4 Hours

Section 12: Ecological information

12.1 Toxicity

Acute toxicity - Fish	No information available as testing has not been completed.
Acute toxicity - Aquatic invertebrates	No information available as testing has not been completed.
Acute toxicity - Aquatic plants	No information available as testing has not been completed.
Acute toxicity - Microorganisms	No information available as testing has not been completed.
Chronic toxicity - Fish	No information available as testing has not been completed.
Chronic toxicity - Aquatic invertebrates	No information available as testing has not been completed.
Chronic toxicity - Aquatic plants	No information available as testing has not been completed.
Chronic toxicity - Microorganisms	No information available as testing has not been completed.
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Eco toxilogical information	No ecological toxicity data available for the overall finished product.

12.2 Persistence and degradability

Degradability	The product is expected to be biodegradable.
Biological oxygen demand	No information available as testing has not been completed.
Chemical oxygen demand	No information available as testing has not been completed.

12.3 Bioaccumulative potential

Bioaccumulative potential	No information available as testing has not been completed.
Bioaccumulation factor	No information available as testing has not been completed.
Partition coefficient; n-Octanol/Water	No information available as testing has not been completed.

12.4 Mobility in soil

Mobility	The product is soluble in water.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	The product does not contain any PBT or vPvB Substances.

12.6 Other adverse effects

Other adverse effects	None known.

Name	Acute toxicity (Fish)	Acute toxicity (Aquatic invertebrates)	Acute toxicity (Aquatic plants)
Hydrogen peroxide 1 - 3%	LC50 96 Hours 16.40mg/l Pimephales promelas (Fat-head Minnow)	EC50 48 Hours 2.40mg/l Daphnia magna	

Section 13: Disposal considerations

Waste management	When handling waste, consideration should be made to the safety precautions applying to handling of the product. Since emptied containers contain product residue, follow label warnings even after container is emptied.

13.1 Waste treatment methods

Disposal methods	Dispose of waste and residues in accordance with local authority requirements, and in accordance with all local, national and international regulations.

Section 14: Transport information

14.1 UN number

UN no. (ADR)	UN1170
UN no. (IMDG)	UN1170
UN no. (IATA)	UN1170

14.2 UN proper shipping name

ADR proper shipping name	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
IMDG proper shipping name	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
IATA proper shipping name	ETHANOL

14.3 Transport hazard class(es)

ADR class	3
IMDG class	3
IATA class	3

Transport labels

14.4 Packing group

ADR/RID/ADN packing group	II
IMDG packing group	II
IATA packing group	II

14.5 Environmental hazards

ADR	No
IMDG	No
IATA	No

14.6 Special precautions for user

EMS	F-E, S-D
Emergency action code	A3 A58 A180
Hazard no. (ADR)	33
Tunnel restriction code	(D/E)

14.7 Transport in bulk according to annex II of MARPOL73/78 and the IBC code

Not applicable.

Section 15: Regulatory information

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

EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on 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 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th May 2010 amending regulation (EC) No 1907/2006.
Approved code of practice	2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)
Chemical safety assessment	No chemical safety assessment has been carried out.

Section 16: Other information

General information	This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010.
Revision comments	This is a first issue.
Revision date	25 March 2020
Revision	1
Safety data sheet status	Approved.

Hazard statements in full

H225	Highly flammable liquid and vapour.

H319	Causes serious eye irritation.
H271	May cause fire or explosion; strong oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.