





Safety Data Sheet

HyperSan

1. IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY			
Product Name	HyperSan		
Address / Phone Number	Delf (UK) Ltd Unit 2 Hickman Road Birkenhead Wirral CH41 1JH Tel: (00 44) 151 630 0405 Fax: (00 44) 151 630 0406 E-mail: info@delf-uk.com		
Emergency Phone Number	IN AN EMERGENCY DIAL LOCAL EMERGENCY SERVICES		
2. COMPOSITION / INFORMATION			
Product Description	Contains Hydrogen Peroxide in a 35 % stabilised solution.		
Alternative Names	Hydrogen Peroxide Solution.		
Hazardous Ingredient(s)	Hydrogen Peroxide. CAS No. 7722-84-1 EINECS No. 231-765-0.		
3. HAZARDS IDENTIFICATION			
Most Important Hazard	Harmful if swallowed. Irritating to respiratory system and skin. Risk of serious damage to eyes.		
4. FIRST AID MEASURES			
Inhalation	Fumes or vapour may cause irritation of the throat and tightness in the chest. If person is exposed to fumes move into fresh air, and if recovery is not rapid seek medical attention.		
Skin Contact	May cause irritation and redness, or whiteness of the skin. Remove contaminated clothing. Wash affected area with plenty of soap and water. If in doubt or symptoms persist obtain medical attention. Launder clothing before re-use.		
Eye Contact	IMMEDIATELY irrigate eye with plenty of water or eyewash solution, keeping eyelids apart, for at least 15 minutes. Obtain medical attention.		
Ingestion	May cause soreness in mouth and throat. Wash mouth out with water. Do not induce vomiting and if conscious give half a litre of water, and seek medical advice.		
5. FIRE FIGHTING MEASURES			
<i>Non-combustible</i>			
Extinguishing Media	Carbon Dioxide, water fog, or water spray may be used. Use water spray to cool containers.		
Fire Fighting Protective Equipment.	Wear self-contained breathing apparatus and suitable protective clothing.		
6. ACCIDENTAL RELEASE MEASURES			
Personal Precautions	See exposure controls / personal protection (section 8).		
Spillages	Small Spillages: Eliminate sources of ignition and evacuate the area immediately. Flush area to drain with plenty of water. Large Spillages: Where possible, transfer to a container for reuse or disposal (see Disposal Considerations – Section 13). Contain and absorb using earth, sand or other inert material. Flush area to drain with plenty of water. Treat large spillages as industrial waste.		
Environmental Precautions	Do not allow to contaminate vegetation, drains or water courses. Spillages or uncontrolled discharges into watercourses, drains or sewers must be reported immediately to the Environment Agency, local water company or other appropriate regulatory bodies.		
7. HANDLING AND STORAGE			
Handling	Avoid contact with skin. Do not mix with any material other than water. Use in well ventilated area.		
Storage	Must only be kept in original packaging. Store in a cool dry area. Keep away from sources of ignition, heat and direct sunlight. Keep away from incompatible materials.		
8. EXPOSURE CONTROL/PERSONAL PROTECTION			
Personal Protective Equipment	Wear protective clothing, PVC gloves, boots and eye/face protection.		
Occupational Exposure Limits	Product	Long Term Exposure Limit (8 hr TWA)	Short Term Exposure Limit (15 Min)
	Hydrogen Peroxide 100%	1.4 mg/m ³	2.8 mg/m ³
9. CHEMICAL AND PHYSICAL PROPERTIES			
Appearance	Clear colourless liquid	Specific Gravity	1.13 typical
Odour	Slightly Pungent	pH	1 - 4 typical
10. STABILITY AND REACTIVITY			
Stability	Stable under normal conditions and correct storage.		

Known Hazardous Reactions	Reducing agents. Acids. Organic Materials. Flammable Substances.	
Conditions to avoid	Avoid extremes of temperature. Sources of heat and direct sunlight (accelerate rate of decomposition).	
Hazardous Decomposition Product(s)	Decomposition will generate the rapid release of oxygen, and may cause fire or violent explosions.	
11. TOXICOLOGICAL INFORMATION		
Inhalation	Excessive exposure may cause burns soreness and irritation to the respiratory tract.	
Skin contact	May cause burns. Repeated or prolonged contact with dilute solutions may cause dermatitis, and skin sensitisation.	
Eye contact	Causes burns. If treated <u>rapidly</u> , permanent damage may be avoided.	
Ingestion	May cause nausea, and severe irritation to the digestive tract may occur.	
12. ECOLOGICAL INFORMATION		
Persistence and Degradation	This product is expected to be readily biodegradable, and is not expected to bio-accumulate.	
Toxicity	Toxic in the aquatic environment due to low pH. Toxic to fish.	IHL RAT LC50 2000mg/m ₃ (4h) ORL MUS LD50 2000mg/kg SKN RAT LD50 4060 mg/kg.
Effect on Effluent Treatment	Photodegradeable. The product is expected to inhibit the biological treatment process.	
13. DISPOSAL CONSIDERATIONS		
Waste	Large quantities may only be disposed in accordance with Local Authority regulations.	
14. TRANSPORT INFORMATION		
UN Transport Name	Hydrogen Peroxide, Aqueous Solution.	
UN No.	2014	
UN Primary Class	5.1 + 8	
UN Packaging Group	II	
Transport Hazard Symbol		
Packaging	5 Litre, 25 Litre and 200 Litre HDPE UN approved containers.	
Normal Carriage Temperature	Ambient.	
15. REGULATORY INFORMATION		
Hazard Symbols	Harmful 	
Risk Phrases	R17:	Keep away from combustible material.
	R22:	Harmful if swallowed.
	R37/38:	Irritating to respiratory system and skin.
	R41:	Risk of serious damage to eyes.
Safety Phrases	S2:	Keep out of the reach of children.
	S26:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S28:	After contact with skin, wash immediately with plenty of water.
	S36/37/39:	Wear suitable protective clothing, gloves and eye/face protection.
	S45:	In case of accident or if you feel unwell, seek medical advice immediately (show this label where possible).
16. OTHER INFORMATION		
2002	Control of Substances Hazardous to Health Regulations.	
2004	Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations.	
2002	Chemical (Hazard Information and Packaging for supply) Regulations.	
	EH40 Occupational Exposure Limits.	
Legal Disclaimer	The information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith. For further details see Delf (UK) Ltd. conditions of sale (additional copies of this are available on request).	
Date of issue	January 2011 Revision 2 Approved By: Dr J. Lee	