


ADVANCED STERILIZATION PRODUCTS

a *Johnson & Johnson* company

SAFETY DATA SHEET

Issue Date:	27 April 2010	Cancels: 25 January 2010
1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING		
1.1 Product Identifier	ASP GLOSAIR™ SOLUTION	
1.2 Relevant identified uses of the substance or mixture and uses advised against	Dry mist disinfection of air and surfaces using the ASP GLOSAIR™ machine.	
1.3 Details of the manufacturer of the substance or mixture	Gloster Europe, BIOSTEP immeuble C, Boite postale 98180, 31681 Labège cedex, France. Tel: +33 (0) 5 62 88 42 22 E-mail: contact@gloster-europe.com	
1.4 Details of the supplier of the substance or mixture	Advanced Sterilization Products, a division of Johnson & Johnson Medical Ltd, Pinewood Campus, Nine Mile Ride, Wokingham, Berkshire, RG40 3EW, UK	
1.5 Emergency Telephone (out of office hours): 01865 407333	For Technical Queries: Tel: +44 (0)1344 871081 Fax: +44 (0)1344 871171 UK Freephone: 0800 864060 E-mail: contact@medgb.jnj.com	
2. HAZARDS IDENTIFICATION		
2.1 Classification of the substance or mixture	Xi Irritant, R36 : Irritating to eyes	
2.2 Label elements	Symbol: Xi Irritant  Danger phrases: R36 : Irritating to eyes	

	<p>Safety advice: S2 : Keep out of the reach of children. S3 : Keep in a cool place. S17 : Keep away from combustible material 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 clear or slightly soapy water S46 : If swallowed, seek medical advice immediately and show this container or label.</p>
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2.3 Other hazard information:	
Ingestion	May cause irritation if swallowed.
Skin Contact	May cause irritation to skin upon prolonged contact.
Eye Contact	Irritating to eyes and will cause pain and redness.
Inhalation	May cause irritation to respiratory tract upon prolonged contact.
Environment (vPvB / PBT)	ASP GLOSAIR Solution may cause adverse effects in the environment if the neutralization protocol is not followed. ASP GLOSAIR Solution degrades rapidly in the environment.
Additional Information	Although the product is not classified as oxidizing, it may enhance the combustibility of other materials if allowed to come into contact with them particularly if allowed to dry and concentrate. Contact with combustible materials should be avoided.

3. INFORMATION ON THE INGREDIENTS

7732-18-5	De-ionized water	95%	Not classified
7722-84-1	Hydrogen peroxide	5-6%	O; C; R5-8-20/22-35
7664-38-2	Orthophosphoric acid	<50 ppm	C; R34
7440-22-4	Silver	50 ppm	Not classified

IMPORTANT NOTE: The classification descriptions given in this section relate to the components in their pure form and do not correspond to the classification of this preparation (see Section 16 for full descriptions of R phrases).

4. FIRST AID MEASURES

4.1 Description of first aid measures

Ingestion	Give the patient 200-300 ml water to drink. Seek immediate medical advice. Show the label or safety data sheet if possible. Do not induce vomiting.
Skin	Rinse thoroughly with water or soap and water.
Eyes	Rinse with plenty of clear water for 15 minutes, remove contact lenses if any, seek medical advice.

Inhalation	Bring the person outside to fresh air. If symptoms of respiratory distress continue, seek medical advice. Oxygen may be administered by qualified personnel.
4.2 Most important symptoms and effects, both acute and delayed	
Ingestion	Risk of gastrointestinal bleeding
Skin	Temporary whitening of the skin may occur, this presents no hazard and should disappear within 1 hour.
Eyes	Redness, pain
Inhalation	Cough, sore throat
4.3 Indication of immediate medical attention and special treatment needed	
Medical Help	Symptomatic treatment
5. FIRE-FIGHTING MEASURES	
5.1 Extinguishing media	Use water spray to cool containers and extinguish fires.
5.2 Special hazards arising from the substance or mixture	The product itself is not combustible, but may enhance the combustibility of other materials if allowed to come into contact with them, particularly if allowed to dry and concentrate.
5.3 Special protective actions for fire-fighters	No specific procedures or requirements.
6. ACCIDENTAL RELEASE OF MATERIAL	
6.1 Personal precautions, protective equipment and emergency procedures	Wear rubber gloves and safety goggles.
6.2 Environmental Precautions	Avoid spillage of large quantities into sewers or the natural environment.
6.3 Methods and material for containment and cleaning up	Use an inert absorbent (sand, diatomaceous earth, etc.) to absorb spillage. Do not absorb with combustible materials, e.g. paper towels, cloths, sawdust etc.
7. HANDLING AND STORAGE	
7.1 Precautions for safe handling	Read the label before use and refer to the user manual for ASP GLOSAIR machine.
7.2 Conditions for safe storage, including any incompatibilities	Store cartridges vertically in their original box at a temperature between 5 and 40°C (41 to 104°F) in a ventilated room free from direct sunlight. Do not exceed the expiry date indicated on the label.
7.3 Specific end uses	Do not try to open filled cartridge to transfer the disinfectant. List of the main compatible materials: Metals: Steel, Stainless steel, Aluminum Plastics: Acrylonitrile/butadiene/styrene ABS, Nylon, polyvinylchloride

	<p>PVC, High Density polyethylene, polystyrene, acetal, PTFE, Teflon, polycarbonate, polypropylene, polysulfone.</p> <p>Elastomers: polyurethane, natural rubber latex, polychloroprene, polyethylene, chlorosulfone, silicone.</p> <p>Others: carbon, glass, wood, leather, cardboard, paper, carpet, paint.</p> <p>In case of heavy spray, a particular attention should be taken with paper (risk of discoloration or deformation) or cardboard (risk of damaging the colour or the laminate)</p>
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters	<p>UK Exposure Limits for Hydrogen Peroxide:</p> <p>LTEL(8 hour TWA) 1 ppm (1.4 mg/m³)</p> <p>STEL (15 minute TWA) 2 ppm (2.8 mg/m³)</p> <p>(Guidance Note EH40 Workplace exposure limits 2009)</p>
8.2 Exposure controls	<p>ASP GLOSAIR Solution must be used only with the ASP GLOSAIR machine. Personnel should not be present during the disinfection process. Use only in accordance with the Instructions For Use.</p> <p>ASP GLOSAIR Solution must be used safely. When handling the cartridges:</p> <ul style="list-style-type: none"> • Respiratory protection: not required • Skin protection: not required. Wash hands thoroughly after handling the cartridges • Eye protection: not required <p>If it is necessary to interrupt the decontamination process, then respiratory protection, safety goggles, rubber gloves and protective clothing should be worn.</p>

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Colourless, transparent liquid
Odour	Light
Odour threshold	Not available
pH	3.6
Freezing/Melting Point	0°C
Initial boiling point and boiling range	100°C
Flash Point	Not flammable
Evaporation rate	>1 (water=1)
Flammability	Not flammable
Upper/lower flammability or explosive limits	Not flammable
Vapour Pressure	14 mmHg
Relative Density	1
Solubility	Completely soluble in water

Partition coefficient	Not applicable – not soluble in Octanol
Autoignition temperature	Not flammable
Decomposition temperature	Not available
Viscosity	Not viscous
Explosive properties	Not explosive
Oxidising properties	Contains 5% Hydrogen Peroxide. Formulation not classified as Oxidizing
9.2 Other information	
Vapour Density	0,7 (air=1)
10. STABILITY AND REACTIVITY	
10.1 Reactivity	Although the product is not classified as oxidizing, it may enhance the combustibility of other materials if allowed to come into contact with them particularly if allowed to dry and concentrate.
10.2 Chemical stability	Biodegradable product breaking down into water and oxygen according to the following reaction: $2 \text{H}_2\text{O}_2 \rightarrow \text{H}_2\text{O} + \text{O}_2$ Cartridges are stable when stored unopened, under ambient conditions.
10.3 Possibility of hazardous reactions	Will not polymerize.
10.4 Conditions to Avoid	Exposure to light, excessive heat (>40°C)
10.5 Incompatible materials	Reducing agents, alkalis, organics substances and substances which are flammable when in contact with Hydrogen peroxide.
10.6 Hazardous decomposition products	Oxygen gas
11. TOXICOLOGICAL INFORMATION	
11.1 Information on toxicological effects	
Skin and Eye Contact	Classified as irritating to the eyes (R36) according to the criteria defined in Directive 67/548/EEC (study carried out on rabbits as per OECD 405). Not classified as irritating to the skin according to the criteria defined in Directive 67/548/EEC (study carried out on rats as per OECD 404). Not classified as dangerous in contact with the skin according to the criteria defined in Directive 67/548/EEC (study carried out on rats as per OECD 402).
Ingestion	LD ₅₀ (rats)>2000 mg/kg (study according to OECD 423). The formulation will be classified in accordance with the GHS as Oral Category 5 or not classified.
Inhalation	No data available for the formulation. Not classified as hazardous according to the method defined in Directive 99/45/EC. May cause irritation to the respiratory tract in case of prolonged exposure.

Repeat Toxicity	Not classified as sensitizing in contact with the skin (study of the potential skin sensitization carried out on Guinea Pigs as per OECD 406). Contains no substances classified as CMR (Carcinogen, Mutagen, Reproductive Toxin).
12. ECOLOGICAL INFORMATION	
12.1 Toxicity	Does not require classification as Dangerous for the Environment. Considered to be biocidal, although it will lose this property rapidly upon dilution in the environment and will quickly degrade.
12.2 Persistence and degradability	Degradable product rapidly breaking down into water and oxygen according to the following reaction: $2 \text{H}_2\text{O}_2 \rightarrow \text{H}_2\text{O} + \text{O}_2$
12.3 Bioaccumulative potential	Will not bioaccumulate.
12.4. Mobility in soil	Will degrade rapidly in contact with soil.
12.5. Results of PBT and vPvB assessment	A PBT/vPvB assessment has not been completed, but the product is not expected to persist or bioaccumulate in the environment.
12.6. Other adverse effects	None known.
13. DISPOSAL CONSIDERATIONS	
13.1 Waste treatment methods	Small quantities (<5 liters) may be diluted with at least 5 volumes of clear water Large quantities (>5liters) should be neutralised by the action of 2 volumes of sodium bisulfite diluted at 5%. It is also possible to neutralize ASP GLOSAIR Solution by adding Catalase, peroxidase, potassium permanganate. The neutralisation reaction may produce some heat. The reacted material should be collected and disposed of in accordance with local regulations The cartridge holding the ASP GLOSAIR Solution is made of high density polyethylene (HDPE), the cap is made of synthetic rubber (EPDM), and the label is made of synthetic material as well. These materials are recyclable and must be processed by an authorized recycling company.
14. TRANSPORT INFORMATION	
14.1 UN Number	Not classified as hazardous
14.2 UN Proper Shipping Name	Not classified as hazardous

14.3 Transport hazard class(es)	Not classified as hazardous	
14.4 Packing group	Not classified as hazardous	
14.5 Environmental hazards	Not classified as hazardous	
14.6 Special precautions for user	ASP GLOSAIR Solution cartridges are not stackable.	
15. REGULATORY INFORMATION		
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	Product must be used in accordance with local and national legislation.	
15.2 Chemical Safety Assessment	Not available.	
16. OTHER INFORMATION		
Do not re-use empty cartridges.		
ASP GLOSAIR Solution must not be mixed with any other product		
Explanation of risk phrases and/or hazard statements from Section 3		
R5	Heating may cause an explosion	
R8	Contact with combustible material may cause fire	
R20/22	Harmful by inhalation and if swallowed	
R34	Causes burns	
R35	Causes severe burns	
Note that these classifications relate to the pure forms of the components listed in Section 3. The inclusion of these phrases in Section 3 is mandatory under the requirements of the REACH Regulation 1907/2006.		
Changes since last revision		
Version	Date	Description of the changes
1	25 January 2010	Creation
2	27 April 2010	Added new brand name ASP GLOSAIR. Manufacturer details added to section 1. Amended section 3. <50 ppm silver changed to 50 ppm silver. Amended section 16.
The information provided in this safety data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for safe handling, storage and use in known industrial applications but is not a specification of guarantee of specific properties and no liability can be accepted for any loss or damage resulting from it's use.		