

DISPOSAflatPAK Clinical waste containers

DISPOSAflatPAK has been developed by Sharpak Healthcare as a safe, cost effective and legal means of collecting and transporting clinical waste classified under UN3291.

Available in 30 and 50 litre sizes, these UN type approved containers are supplied in flat pack form ensuring storage space is kept to a minimum.

Each container is supplied with a liner bag which has the added features of a fragrance and antimicrobial additive blended in to the material. Two security ties are also included with each container to close the bag and container prior to collection and disposal.

The use of large type approved waste containers (700 litres and above) is not always practical due to space constraints in smaller collection vehicles. There is also the situation where clinical staff working in the community have the need for a safe and simple clinical waste container which can be easily transported by car.



Patented and trademarked by Nolato.

The packs are printed in accordance with the information required to ensure conformance to the provisions of the United Nations Recommendations on the Transportation of Dangerous Goods, Chapter 9, UN 3291, Clinical Waste, Unspecified, NOS.

Subject to the quantities required it will also be possible to 'customer own label' the DISPOSAflatPAK with the company logo and contact details.

DISPOSAflatPAK offers the following features:

UN TYPE TESTED AND APPROVED

POLYETHYLENE LINER BAG

FRAGRANCE ADDITIVE IN LINER BAG

ANTI-MICROBIAL ADDITIVE IN LINER BAG

QUICK & SIMPLE TO ASSEMBLE

MINIMUM STORAGE SPACE REQUIRED DUE TO FLAT PACK PRESENTATION

DISTINCTIVE COLOUR AND LABELLING

COST EFFECTIVE

REDUCED ENERGY REQUIRED FOR DISPOSAL

SECURITY TIES PROVIDED

SEQUENTIAL NUMBER AND BARCODE SYSTEM FOR FULL DELIVERY AND COLLECTION TRACEABILITY

PURPOSE DESIGNED FREESTANDING/WALL MOUNTED STAND

CUSTOMER OWN LABEL AVAILABLE SUBJECT TO QUANTITY

The product:

DISPOSAflatPAK 30 & 50 UN type approved containers are supplied with a polyethylene bag liner and two security ties. The pack is simple to assemble with a crash-lock base and only requires the polyethylene bag liner to be placed into position. Once the container is filled, the liner bag is closed using one of the security ties provided. The lid of the DISPOSAflatPAK is then closed and secured with the remaining security tie.



DISPOSAflatPAK 30 & 50 litre clinical waste containers are supplied with a polyethylene liner bag which has antimicrobial and fragrance additives incorporated. Once the containers are filled the inner bag is closed using one of the two attached security ties. The closing procedure is completed by securing the lid using the remaining tie.

A purpose designed stand (picture A) has been developed for the DISPOSAflatPAK 30 & 50 litre containers. The stand can be used as a free standing unit fitted with either fixed feet or lockable castors or alternatively it can be wall mounted. The adjustment necessary to change from the 30 to the 50 litre container is achieved by the re-positioning of the support cradle. The stands are supplied in flat pack form and are quick and simple to assemble. The metal parts are finished in a combination of powder coated polyester paint and chrome plate for maximum protection against corrosion.

The accessory pack (picture B) allows you to attach surgical gloves, wipes and a sharps container.

A wall mounted basket (picture C) and laboratory trolley (picture D) are also available.



All DISPOSAflatPAK's are supplied with a sequentially numbered bar-coded label which is also used to retain the two security ties to the outside of the containers.

DISPOSAflatPAK INFORMATION

	DISPOSAflatPAK 30 (Yellow)	DISPOSAflatPAK 50 (Yellow)	DISPOSAflatPAK 50 (Orange)	Wall Basket (pic A)	Laboratory Trolley (pic B)
Height	440 mm	675 mm	675 mm		
Width	295 mm	295 mm	295 mm		
Depth	295 mm	295 mm	295 mm		
Capacity	30 litres	50 litres	50 litres		
UN Numbers	4G/Y9/S/**/GB/4400	4G/Y17/S/**/GB/4401	4G/Y17/S/**/GB/4401		
Pack Quantity	10	10	10	1	1
Re-order codes	CWO5920	CWO5921	CWO5926	CWO5925	CWO5924



A



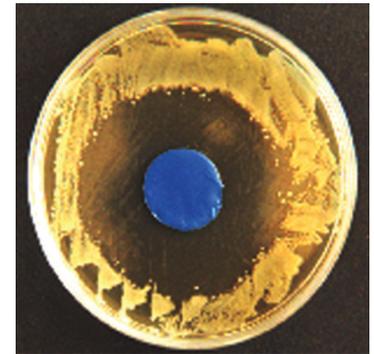
B

For details regarding Sharpak distributors and worldwide availability, please contact:
Nolato Jaycare Ltd Walton Road Portsmouth PO6 1TS
Tel +44 2392 314711 Fax +44 2392 380314 www.sharpaks.com

Antimicrobial additive in DISPOSaflatPAK™ liner bag



The picture (right) shows an agar plate after incubation. The blue disc is a sample of polyethylene film containing the antimicrobial additive. The test organism, seen as the yellow growth, is E.coli. The clear zone can be seen around the sample indicating that the film was effective against E.coli.



CONTROL SAMPLE WITHOUT ADDITIVE

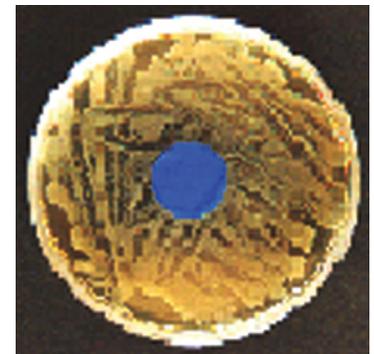
These pictures show sample films with and without the 1% addition of the antimicrobial additive in comparison with control film samples without the additive.



AGAINST: S.AUREUS



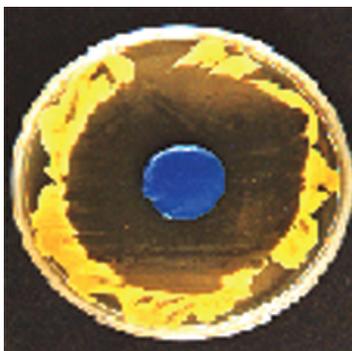
AGAINST: E.COLI



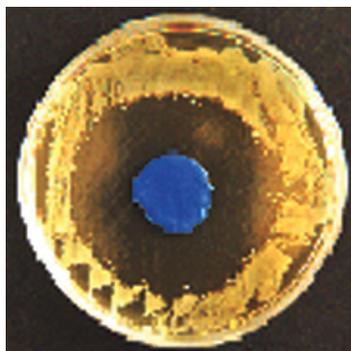
AGAINST: S.TYPHIMURIUM

CONTROL SAMPLE WITH ADDITIVE

The test bacteria used were Staphylococcus aureus (S.aureus), Escherichia coli (E.coli) and Salmonella typhimurium (S.typhimurium).



AGAINST: S.AUREUS



AGAINST: E.COLI

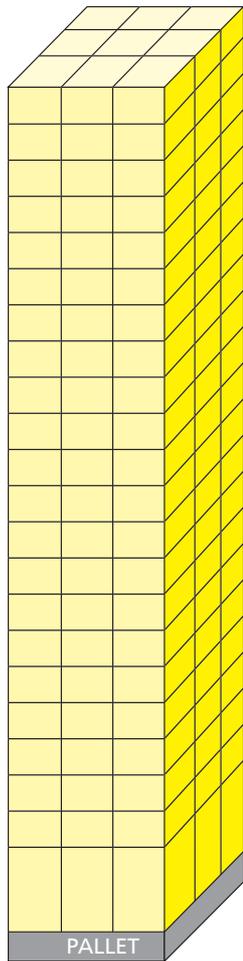


AGAINST: S.TYPHIMURIUM

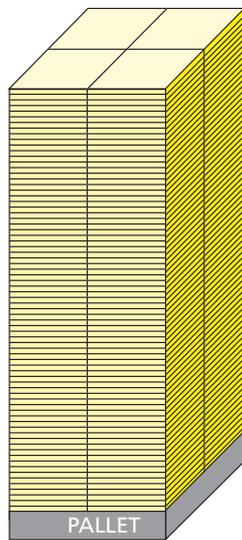


Patented and trademarked by Nolato.

Comparison data of plastic clinical waste containers against the DISPOSAflatPAK unit



Plastic Injection Moulded Clinical Waste Containers



DISPOSAflatPAK Clinical Waste Containers

INFORMATION

CONTAINER SIZE	30 LITRE	60 LITRE	30 LITRE	50 LITRE
Height	220 mm	220 mm	120 mm	120 mm
Width	120 mm	120 mm	120 mm	120 mm
Depth	100 mm	100 mm	100 mm	100 mm
Units/pallet	243	198	300	300
Weight/unit (grms)	1,234	1,798	620	793
Weight/pallet (kg)*	300	356	186	238
Total capacity (litres)*	7,290	11,880	9,000	15,000
Load Volume M3	2.64	1.73		

*Total capacity - maximum fill volume of all the containers on a pallet.

*Weight/pallet - Total weight of a loaded pallet, the weight of the pallet is NOT included.

Information relating to the Antimicrobial/Fragrance additive which is incorporated into the DISPOSAflatPAK Clinical Waste Container Liner bags.

When we began the development of the DISPOSAflatPAK clinical waste containers it was decided that the addition of an antimicrobial and fragrance additive would be beneficial to the liner bags properties and enhance the overall features and performance of the products.

Studies have shown that everyday objects can support and spread bacteria. Research carried out by the University of Arizona found potentially pathogenic bacteria on swabs taken from telephones, pens, counters and chair armrests, to name but a few. This research also showed that hand contact with contaminated objects transferred bacteria quickly to a range of other objects as well as to an individuals face and lips, which could potentially lead to infection.

If microbe populations are kept low the risk of cross contamination and the possibility of transmitting infection is reduced, thus antimicrobial products can offer hospitals, food manufactures and consumers extra peace of mind. Reducing odours is an attractive benefit for many applications such as clothing and waste containers. The use of an antimicrobial system in a product provides additional protection against micro-organisms, however they do not replace the need for cleaning and must always be used together with good hygiene practice.

Sharpak Healthcare established that it was possible to obtain a suitable antimicrobial and fragrance additive which could be incorporated into the polyethylene liner bag material during the extrusion part of the bag production process. A number of different fragrances were tested including pine and lemon. However the one selected as the most suitable for this application was the fragrance of baby talc.

The DISPOSAflatPAK clinical container waste bags contain an antimicrobial/fragrance masterbatch containing 2,4,4'-trichloro-2' hydroxy diphenyl ether, also called triclosan, as the antimicrobial component. Triclosan is a small, flat, organic molecule, which is effective against most common bacteria and is rapidly available at the product surface. This low toxicity additive has approval for use in cosmetics and oral products; consequently it has been used for many years in toothpaste, mouthwash and cosmetics.

Once compounded into a product being small and mobile the triclosan diffuses through the polymer matrix to the surface where it interacts with microorganisms present. Equilibrium is reached between the additive present at the surface and that in the body of the polymer.

Further additive only diffuses to the surface when it is whipped or washed. The additive in the polymer acts as a reservoir, providing extended antimicrobial performance.

Triclosan's mode of action against bacteria is not fully understood but it is thought that the molecule disrupts the cell wall and interferes with enzyme activity. Research into the mode of action has raised concerns about the possibly specific nature of triclosan's activity and that this, together with its excessive use, could lead to the evolution of resistant bacteria strains. There are reports of triclosan resistant bacteria being produced. However it is worth noting that although the development of resistance has been shown in the laboratory during this product's 30 years of use there has been no evidence of resistant strains occurring naturally.

Triclosan is a very effective antibacterial agent and an excellent choice for many polyolefin applications, especially film and mouldings.



Patented and trademarked by Nolato.

For details regarding Sharpak distributors and worldwide availability, please contact:
Nolato Jaycare Ltd Walton Road Portsmouth PO6 1TS
Tel +44 2392 314711 Fax +44 2392 380314 www.sharpaks.com

