

## 2 EN 1 RECIPIENT

Norliza Mohd Salleh<sup>1</sup>, Nurkhairul Bariyah Khairulazdan<sup>2</sup>, Nurhanis Abdul Halim<sup>3</sup>, Adibah Hussin<sup>4</sup>  
<sup>1, 2, 3, 4</sup> *Universiti Teknologi MARA Cawangan Pahang*  
*norlizamohdsalleh19@gmail.com*

### **ABSTRACT:**

Food container is important in people daily life, where it assist us in the food preparation process. Besides, food container also may be use by food provider to sell their foods. The easier to be handle and multifunction the container is, the more valuable it is. However, the existing food container has limited function. It can be used either to for food or beverage. In other countries, they may have the container which combined both for food and beverage, unfortunately it does not have lid to cover the food and cannot be recyclable. Besides the beverage cup made of paper-based material and cannot withstand the hot drink. Addition, the size of the food container is small and does not have compartment. Therefore, the 2 in 1 food container that have great features has been introduced. This food container called as 2 en 1 Recipient. This 2 en 1 Recipient is the one of the new features with combination of food and beverage container. The objective for this project are to make people be able to hold both food and beverage only with one hand. Besides that, 2 en 1 Recipient has a cover lid and divide the food container into two parts to separate two different types of foods other than just one food made of plastic material. Furthermore, the drink cup is made of two layers of hard plastic material so that it will be able to hold either cold or hot drink. The additional value added of this project is the product can be recyclable. Therefore, it may help in reducing cost of production and also environment. In conclusion, we believed that, this 2 en 1 Recipient will assist the user and it is really significant to be used in cinema, stadium and others.

**Keywords:** Food Container, multipurpose, recyclable, 2 en 1 Recipient.

### **INTRODUCTION**

Food container is a simple and small thing but literally may give impact to people daily life, especially to the healthy lifestyle. Nowadays, people prefer to choose multifunction food container that can assist them in preparing their food and if it is environmental friendly, it is another additional advantage. Besides, food container also may be use by food provider to sell their foods. Unfortunately, the existing food container has limited function, where it is either for food or beverage only. Besides, it cannot be recyclable and does not have lid to cover the food to ensure its cleanliness. Therefore, the 2 in 1 food container that have great features has been introduced namely, 2 en 1 Recipient. This 2 en 1 Recipient is the one of the new features with combination of food and beverage container. The main objective of 2 en 1 Recipient is to ease people in handling both food and beverage by only use one hand. Besides, 2 en 1 Recipient is a container that can be recyclable and re-useable. Then, the author also aims to introduce food container that has two compartments that separate two different types of foods. Upon introducing this 2 en 1 Recipient, the author has conducted a survey and it is proven that the two compartments food container that made up from plastic that environmental friendly is most demanded by the user. Therefore, the 2 en 1 Recipient is a good product that has high potential to be commercialized.

## METHODS

In this study, a self-structured questionnaire was designed and distributed to 102 respondents. The questionnaire contained two sections; Section A, demographic profile of the respondent and Section B, the details on food container that will be demanded by the users. The data will be analyzed using Microsoft excel.

The target market for this product is focusing on teenagers and adults. The product will assist the user and it is significant to be used in cinema, stadium and amusement park. In addition, the perfect timing to market 2 en 1 Recipient is on the football match season and at cinema especially during the blockbuster movie is coming out.

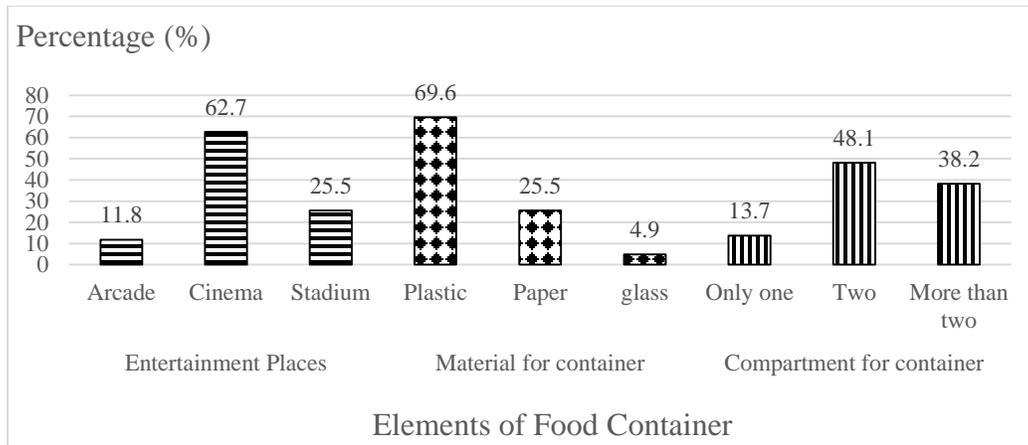
## RESULTS AND DISCUSSIONS

Malaysians have produce an average of 30,000 tons of waste every day and only 5% of it is recycled. Using recyclable item is important since it is a way of energy saving, to reduce the waste in landfills and helping the enviroment (Sooria, 2009). With the introducing of 2 en 1 Recipient, the author believed that, its able to encourage people to use recyclable products to save environment and energy. In addition, it has lot of other benefits and special features.

The main product features of 2 en 1 Recipient is recyclable that people can use it for many times without worries. The cup container come with double coat plastics that withstand with warm drink, therefore the user will be able to hold the drink container. Besides, the product consist of both food container and drink container that can be hold with only one hand. The product's quality for the food and drink container made of different type of plastics material. The drink container was made double coat of high-density Polyethylene (HDPE) plastic material and for food container is Polypropylene (PP) plastic material. While the straw was made by polyethylene (PE) plastic material. According to this type of plastic material, it is confirm that 2 en 1 recipient is BPA free, which not affected from chemical reaction towards both food and drink (Achilias, Roupakias, Megalokononimos, Lappas, and Antonakou, 2007). Therefore this product are tough and rigid plastics.

Based on the data in figure 1 below, 62.7% of respondents prefer to have this multifunction food container in cinema and followed in stadium by 25.5% . It is because, in these places, people are focusing on the movies and matches and they need some drinks and snacks as the movie and match is on. However, they prefer something that easy to be held as they place will full of people. Next, most respondent choose to have plastic material (69.6%) since it is more long lasting and easy to be handle as compared to paper and glass food container. Lastly, 48.1% of respondent wish to have two compartment, which can be fill in with 2 types of food.

Figure 1: Elements of Food Container



Therefore, this 2 en 1 Recipient is able to fulfill the demand of people and in addition, it is safe for the environment and promotes a healthy lifestyle.

## CONCLUSION

As a conclusion, our target to make innovation on existing food and beverage container were achieved. We improved the existing drink cup and food container which are made up from paper by making the container from plastic (HDPE, PE and PP) and then we combined both food container and drink container together as one product that called 2 en 1 recipient. This will give comfort and safe to the consumer to hold it with only one hand. We managed to produce a prototype after conducting several researches on certain aspects. We believed that, this 2 en 1 Recipient will assist the user as well as it can preserve the environment and it has a great value to be commercialized.

## REFERENCES

- Achilias, D. S., Roupakias, C., Megalokonomos, P., Lappas, A. A., and Antonakou, E. V. (2007). Chemical recycling of plastic wastes made from polyethylene (LDPE and HDPE) and polypropylene (PP). *Journal of Hazardous Materials*, 149 (3), 536-542.
- Sooria, G. (2009, March 3). Why Recycle? Retrieved from <http://slideplayer.com/slide/6638167/>