

Chemical & Pharmaceutical Industry – Sector Specific Example

Important Definitions

→Section 2.1 Irish Sourced Output Packaging_Supplied in the ROI

- Brandholder – Applies the packaging to the product
- Distributor – First to transport the packaged good
- Retailer – Sells packaging on product, which the direct customer removes

→Section 2.3 Imported Output Packaging_Supplied in the ROI

- Converter –Imports empty packaging to apply to the product
- Brandholder/Importer – Imports packaged products for onward sale or applies imported packaging to product
- Distributor – First to transport the packaged good
- Retailer – Sells packaging on product, which his direct customer removes

→Section 2.2+2.4 All Exports

- Filled Packaging – Exports packaged products therefore reports in this section

Any goods which are contract packed, are the responsibility of the brand owner and should not be reported by the packer (this applies to both the inputs and the outputs)

→→ →→ NB if you sell product which has been purchased from an Irish supplier, you only report in the Retailer section, for the packaging around the product which your customer removes You only have to report as a Distributor for these products, if you collect from your supplier



→→ Cut offs and process waste should not be reported on the form

Section 2.1

You source packaging from within ROI to pack imported chemicals

- Plastic drums (25 tonnes) are filled, and steel banding (10 tonnes) and pallets are applied (reusable packaging calculated to 28 tonnes) – Brandholder
- You deliver 100% to your customer – Distributor
- Your customer removes all associated packaging – Retailer
- Your pallets are in a reuse loop – Reuse, Brandholder/Importer, Distributor and Retailer → See Reuse document in the information section

Calculate your packaging

Each pallet weighs 20 kg or 0.02 Tonnes

Calculate the **weight of packaging per sales unit**:

100 units of product are applied to one pallet

100,000 units of product are sold per reporting product

$100,000/100 = \text{No of pallets used} \rightarrow 1000 * 0.02 = \text{Total tonnes wood} \rightarrow 20 \text{ Tonnes}$

Weight handled per reporting period = 20 Tonnes

How to calculate an attrition rate:

$$\frac{\text{Weight of scrapped packaging} \times 100}{\text{Total tonnage per reporting period}}$$

Per reporting period, 3 pallets are scrapped – That's 3 * 0.02 Tonnes → 0.06

Therefore the attrition rate is:

$$\frac{0.06 \times 100}{20}$$

The attrition rate is 0.3%

Therefore the percentage, Suitable for Continued Reuse is 99.7%

Once an attrition rate is calculated the percentage reused can be used for subsequent reporting periods, unless the business changes dramatically

If you take it that 1000 pallet turns are taken, of which 600 hold steel drums and 400 hold plastic drums. The following breakdown per weights is applied:

Packaging Applied	Unit Weight (Tonnes)	Sales	Total Weight Applied (Tonnes)
Steel Drum	0.046	600	27.300
Plastic Lid	0.033	400	13.200
Additional wrap applied	0.008	1000	8.230

2.1 Irish Sourced Output Packaging Supplied in the Republic of Ireland

Total Tonnes: (Including Reuse Packaging)	Paper /	Glass	Alum .	Steel	Plastic	Wood	Papri/Plas	Metal	Other
	Cardboard						Comp	Comp	
Materials Manufacturer									
Converter									
Brandholder				27.300	21.430	20.000			
Distributor				27.300	21.430	20.000			
Retailer				27.300	21.430	20.000			
Reuse Packaging (Official Loop) Suitable for Continued Reuse	Paper /	Glass	Alum .	Steel	Plastic	Wood	Papri/Plas	Metal	Other
	Cardboard						Comp	Comp	
Brandholder						19.940			
Distributor						19.940			
Retailer						19.940			

Section 2.3

You import plastic pellets which are sold to manufacture packaging in ROI. Some most is sold on to the Irish market, but a small amount is e exported (2.2+2.4 All Exports). You deliver to 50% of your customer base. All associated packaging is removed by your customer.

300 tonnes of plastic pellets imported to manufacture packaging – Materials Manufacturer

The associated packaging is as follows

200 KG's of pellets arrive per unit load in an IBC with a plastic lid, pallet wrap and pallet applied. Therefore, 1,500 units were imported per 6 month reporting period. The weight of the associated packaging plus the total to be reported is as follows:



Associated Packaging	Unit Weight (Tonnes) Per Load	Units Imported	Total Weight Applied (Tonnes)
Steel IBC	0.050	1500	75.000
Plastic Lids	0.008	1500	12.000
Pallets	0.025	1500	37.500
Additional wrap applied	0.002	1500	3.000

The figures are reported as follows:

2.3 Imported Output Packaging_Supplied in the Republic of Ireland

Total Tonnes: (including Reuse Packaging)	Paper /		Alum.	Steel	Plastic	Wood	Paper/Plas		Metal	Other
	Cardboard	Glass					Comp	Comp		
Materials Manufacturer					300.000					
Converter										
Brandholder/Importer				75.000	15.000	37.500				
Distributor				37.500	7.500	18.750				
Retailer				75.000	15.000	37.500				

Section 2.2+2.4

A small percentage of your product is exported.

- All packaged goods exported – Filled Packaging

2.2 + 2.4 All Exports

Total Tonnage: (Including Reuse Packaging)	Paper / Cardboard	Glass	Alum.	Steel	Plastic	Wood	Paper/Plat Comp	Metal Comp	Other
Empty Packaging									
Filled Packaging				1.000	0.500	2.500			
Reuse Packaging Suitable for Continued Reuse	Paper / Cardboard	Glass	Alum.	Steel	Plastic	Wood	Paper/Plat Comp	Metal Comp	Other
Filled Packaging									