

Attachment H Materials Handling

H.1 Raw Materials, Intermediates and Product Handling

All raw materials are listed in Tables G.1 (i) and G.1 (ii) in the Application Form. The table below shows the location and transport within the site of all materials used on-site. The table has been compiled and grouped according to storage locations. There are designated storage areas throughout the site. Forklift trucks, pallet trucks or stainless steel euro bins are used to transport materials within the factory. Other general methods of transport include the following:

- flour is blown from the flour silos through an air handling system
- sauce is pumped through a pipe-work system from the sauce room to the required production areas
- water is pumped from storage to the required areas
- refrigeration gasses come through a pipe-work system from the refrigeration plant rooms and are networked through the roof void

| Contents | Location | Transport Within Site | Transport Onto / Off Site |
|-----------------------------------------------------------|----------------------------------------|--------------------------------|---------------------------|
| Frozen meat, vegetables | Fridge 1 | Forklift trucks | Truck |
| Herbs, spices, starch, pastes, beef/vegetable stock, etc. | Dry Goods Store | Forklift trucks | Truck |
| Chilled cooked meats, dairy products | Fridge 2 | Forklift trucks | Truck |
| Meat tempering: beef, pork, kidney | Fridge 3 & 4 | Forklift trucks | N/A |
| Pre-assembly ingredient store | Fridge 6, 7, 8 | Euro bins, pallet trucks | N/A |
| Finished goods | Fridge 12 | Forklift trucks, pallet Trucks | Truck |
| Finished goods | Despatch | Forklift trucks, pallet Trucks | Truck |
| Ingredient storage for R&D | R & D Freezer | Manual/Trolley | Truck |
| Packaging | Packaging Store | Forklift trucks, Pallet Trucks | Truck |
| Videojet Fluids, Hand Sanitiser | Engineering Stores: flammable cabinet | Manual | Truck |
| Packaging | Packaging Storage Container | Forklift trucks, pallet trucks | Truck |
| Water | Water Storage Tanks at rear of factory | Piped to required areas | Piped |

| Contents | Location | Transport Within Site | Transport Onto / Off Site |
|----------------------------------|-----------------------------------------|-------------------------------------|---------------------------|
| Oils | Oil Store Room | Forklift trucks, banded trolleys | Truck |
| Gas Oil | Banded tank beside boiler house | Pumped to forklift truck | Tanker |
| Vegetable Oil | Banded tank near water tanks | Piped to required areas | Tanker |
| Gasses | Gas cage | In use cylinders on welding trolley | Truck |
| Hygiene Chemicals | Banded, caged chemical compound | Forklift trucks, banded trolleys | Truck |
| Hygiene Chemicals/Products | Hygiene Stores | Banded trolleys | Truck |
| Effluent Treatment Chemicals | Banded Area in Effluent Treatment Plant | Piped to required areas | Truck |
| Agars, methylated spirits, etc.. | Microbiological Laboratory | Carried by hand within laboratory | Courier |

Segregation

Raw materials are segregated within the factory as follows:

- raw meat products are segregated from cooked product
- wooden pallets or cardboard are not allowed into production areas
- chemicals are not stored near ingredients or finished product, they are stored in the banded chemical store or locked cages in wash-rooms.

H.2 Wastes Handling

| Waste Material | Waste Description | Source of Waste | Waste Storage Area | Amount Stored | Periods of Generation | European Waste Catalogue |
|-------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------|----------------|-----------------------|--------------------------|
| Packaging | Cardboard, paper sacks | Packing, Canteen, Engineering Stores, Production 1 & 2 → sent to baling machines | Curtain-sider container near canteen | 86.4 tonne | Daily | 20 01 01 |
| Packaging | Plastic | Goods Intake/Storage/Preparation Area, Production 1 & 2, Packing, Canteen → sent to baling machines | Curtain-sider container near canteen | 1.3 tonne | Daily | 20 01 39 |
| Packaging | Aluminium foil | Production 1 & 2 → sent to baling machines | Curtain-sider container near canteen | 0.59 tonne | Daily | 20 01 40 |
| Paper | Paper/General Office Waste | Goods Intake / Storage / Preparation Area, Production 1 & 2, Amenities → sent to baling machines | Skip area at side of factory | 0.96 tonne | Daily | 20 01 01 |
| Fluorescent bulbs | Used bulbs | Factory | Container outside engineering workshop at rear of factory | 10 bulbs (max) | Monthly/Annually | 20 01 02 |
| Pallets | Damaged wooden pallets | Goods Intake / Storage / Preparation Area, Despatch | Side of factory near despatch | 7.2 tonne | Daily | 20 01 38 |
| Empty containers | IBCs | Hygiene processes, water treatment processes | Stored at rear of factory and in effluent treatment plant | 2 | Weekly / Monthly | N/A |
| Municipal waste | Mixed, food waste, general office waste | Office waste, process waste, canteen waste | Skip area at side of building | 26 tonne (max) | Daily | 20 03 01 |

| Waste Material | Waste Description | Source of Waste | Waste Storage Area | Amount Stored | Periods of Generation | European Waste Catalogue |
|--------------------------------|------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------------|----------------|-----------------------|--------------------------|
| Oil | Waste oils | Engineering, maintenance, machinery | Stored in drums | 6000L (max) | Weekly / Monthly | 13 01 13 |
| Laboratory waste | Used agar plates | Used agar plates | Skip area at side of factory | 200L | Daily | N/A |
| Process waste | Food waste, damaged product, QC rejects, product to ground | Preparation, production, packing | Designated skips at waste storage area for rendering* | 23 tonne (max) | Daily | 20 03 01 |
| Effluent treatment waste | Sludge | Effluent treatment process | Collection trailer near effluent treatment plant for landspreading | 10 tonne (max) | Daily | 02 02 04 |
| Videojet inks & cleaning fluid | | Packing department | Drum in banded tray beside vegetable oil tank at rear of factory | 100L | Daily / Weekly | N/A |
| Ink cartridges | Ink cartridges | Offices | General office | 20 cartridges | Monthly | 20 01 28 |

*Classed as Category 3 Waste as per EC Reg 1774/2002/EC

Waste Disposal Arrangements

| Waste Undertaker | Waste Collected | Approval Number | Waste Permit Register Number | Expiry Date of Waste Permit | Treatment / Reprocessing / Recovery | Transport | Location of Final Disposal |
|--------------------|-------------------------------------|-----------------|---------------------------------------------|-----------------------------|-------------------------------------|-------------------|----------------------------|
| Munster Protein | Meat residues | R914 | - | 31-12-2006 | Rendering | Truck | Cahir, Co. Tipperary |
| Premier Protein | Meat residues | R915 | - | 31-12-2007 | Rendering | Truck | Ballinasloe, Co. Galway |
| Walsh Waste | General waste | | CW001 | 13-03-2008 | Landfilling | Truck | |
| Midland Electrical | Bulbs/Fluorescent Tubes | | Collected by supplier as per WEEE Directive | | Recycling | Truck | Athy, Co. Kildare |
| Connaught Timber | Timber | | WR/01-3 | 01-12-2007 | Recycling | Truck | Tynagh, Co. Galway |
| Connaught Timber | Timber | | CW064 | 01-12-2007 | Recycling | Truck | |
| Eamonn Gaynor | Sludge | | CW436 | 28-06-2008 | Land-spreading | Tractor & trailer | Nenagh, Co. Tipperary |
| AES Nenagh | Cardboard, Plastic & Aluminium Foil | | WCP 053(2)/OY/351/06 | 21-03-2008 | Recycling | Truck | Nenagh, Co. Tipperary |
| Galway Metal | Waste Metal | | CW004 WR/05-3 | | Recycling | Truck | Oranmore, Co. Galway |
| Atlas Oil | Waste Oil | | | | Recycling | Tanker | Portlaoise, Co. Laois |