

Type	Raw material/function	Chemical Nature/Composition Where Appropriate	Addition Point	Environmental Impact	Is There a Suitable Alternative For Those With Significant Impact Potential?
Livestock	Cattle	Natural product (animal)	Lairage	This material is completely biodegradable. Potential negative impact on trade effluent from animal manure. There may be potential health risks associated with animals due to bacterial and/or viral infections.	No viable alternative
Livestock	Lambs	Natural product (animal)	Lairage	This material is completely biodegradable. Potential negative impact on trade effluent from animal manure. There may be potential health risks associated with animals due to bacterial and/or viral infections.	No viable alternative
Meat	Beef carcass	Natural product (animal)	Lairage	This material is completely biodegradable. There may be potential health risks from waste material.	No viable alternative
Water	Washin/rinsing	Water			No viable alternative
Hide Preservation	Salt	Sodium chloride	By-Products Area	Potential negative impact on trade effluent quality in the event of spillage	Not viable. Material is specified by the customer
Hide Preservation	Ice	Water	By-Products Area	No environmental impact under normal use.	No viable alternative available
Packaging Material	Pallets	Plastic	Boning Hall and Coldstore	Pallets are returnable/reused. Damaged pallets are collected by a specialist waste recycling company.	No viable alternative available
Packaging Material	Cartons	Cardboard	Red Offal Room and Boning Hall	Cardboard is baled and the bales are then collected by a specialist waste recycling company.	Specified by customers
Packaging Material	Labels	Paper	Red Offal Room and Boning Hall	Indirect impact through landfill.	Specified by customers
Packaging Material	Sleeves	Paper	Red Offal Room and Boning Hall	Indirect impact through landfill.	Specified by customers
Packaging Material	Plastic trays, shrink wrap, vac pac	Plastic	Red Offal Room and Boning Hall	Clean plastic is baled and collected by a specialist waste recycling company. Contaminated plastic is currently sent for landfill.	Specified by customers
Oils	Gas-oil (boiler fuel)	Hydrocarbons	Boiler	Spillages may penetrate the soil causing ground water contamination. Not readily and can be expected to bioaccumulate. Some short-term toxicity to aquatic and marine organisms.	No viable alternative available
Oils	Diesel (DERV)	Hydrocarbons	Vehicles	Spillages may penetrate the soil causing ground water contamination. Not readily and can be expected to bioaccumulate. Some short-term toxicity to aquatic and marine organisms.	No viable alternative available
Oils	Hydraulic and Lubricating Oil	Mineral oil with multi functional additives	Slaughter Hall, general plant and equipment	Spillages may penetrate the soil causing ground water contamination. Not readily and can be expected to bioaccumulate. Some short-term toxicity to aquatic and marine organisms.	No viable alternative available
Oils	Engine Oil	Mineral oil	Generator, general plant and equipment	Not readily biodegradable. Leaching and penetration through surface soils is generally regarded as resulting in long term persistence. Product may be harmful to aquatic life.	No viable alternative available
Oils	Gearbox Oil	Mineral oil	General plant and equipment	Not readily biodegradable. Leaching and penetration through surface soils is generally regarded as resulting in long term persistence. Product may be harmful to aquatic life.	No viable alternative available
Refrigerant	Chilling	Ammonia		Potential negative impact to trade effluent quality in event of spillage. Potential health effects from leaks to air.	Best environmental option currently practised as refrigerant is completely retained.
Refrigerant	Glycol	Ethane-1,2-diol		Potential negative impact to trade effluent quality in event of spillage. Potential health effects from leaks to air.	Ammonia

Refrigerant	R-404 R-448 R-410 R-134 R-600	HFCs	Boning Hall, Chill Rooms, Blast Freezers, Box Chill 2, Coldstore, Pallet Store, Loading Bay, Dispatch, Ice Maker	Has a zero Ozone Depleting Potential, but has the disadvantage of a higher Global Warming Potential than Ammonia.	Ammonia
Water Treatment Chemicals	Alkalinity provider	Sodium hydroxide	Boiler	Potential negative impact to trade effluent quality in event of spillage. Accidental release of large quantities may harm aquatic organisms.	Most appropriate agent for the duty but will be kept under review with new developments in water treatment technology.
Water Treatment Chemicals	Oxygen scavenger	Sodium bisulphate	Boiler	Potential negative impact to trade effluent quality in event of spillage. Accidental release of large quantities may harm aquatic organisms.	Most appropriate agent for the duty but will be kept under review with new developments in water treatment technology.
Water Treatment Chemicals	Water treatment	Potassium hydroxide	Boiler	Potential negative impact to trade effluent quality in event of spillage. Accidental release of large quantities may harm aquatic organisms.	Most appropriate agent for the duty but will be kept under review with new developments in water treatment technology.
Water Treatment Chemicals	Biocide	Blend of thiocyanate and dithiol in organic solvent, bromo-chloro, 5,5-di methyl hydantion.	Condenser	Potential negative impact to trade effluent quality in event of spillage. Accidental release of large quantities may harm aquatic organisms.	Most appropriate agent for the duty but will be kept under review with new developments in water treatment technology.
Water Treatment Chemicals	Corrosion inhibitor	Aqueous acidic solution of inorganic salt, phosphonate, polymer and organic hetrocyclic compound.	Condenser	Potential negative impact to trade effluent quality in event of spillage. Accidental release of large quantities may harm aquatic organisms.	Most appropriate agent for the duty but will be kept under review with new developments in water treatment technology.
Disinfectant and Cleaning Chemicals	Disinfectant	Potassium hydroxide, sodium silicate, phosphoric acid, surfactants, iodine, peroxyacetic acid, hydrogen peroxide, acetic acid.			
Disinfectant and Cleaning Chemicals	Foam Cleaner				
Disinfectant and Cleaning Chemicals	Sanitiser				
Disinfectant and Cleaning Chemicals	Personal hygiene and PPE cleaning	Surfactants, phosphates, sodium salt	Laundry, hand soap dispensers	Potential negative impact to trade effluent quality in event of spillage. Material is readily biodegradable.	Best environmental option currently practised.
Disinfectant and Cleaning Chemicals	Detergent	Sodium hydroxide	Traywash	Contains no organic compounds that are toxic to organisms in an aqueous medium and is readily biodegradable.	Best environmental option currently practised.
Disinfectant and Cleaning Chemicals	Vehicle detergent	Sodium hydroxide	Vehicle Wash Area	Contains no organic compounds that are toxic to organisms in an aqueous medium and is readily biodegradable.	Best environmental option currently practised.
Personal Protective Equipment (PPE)	Boots	Uknown	Amenity areas		Not viable. Material is specified by the customer
Personal Protective Equipment (PPE)	Hats	Uknown	Amenity areas		Not viable. Material is specified by the customer
Personal Protective Equipment (PPE)	Gloves	Uknown	Amenity areas		Not viable. Material is specified by the customer
Personal Protective Equipment (PPE)	Coats	Uknown	Amenity areas		Not viable. Material is specified by the customer
Personal Protective Equipment (PPE)	Trousers	Uknown	Amenity areas		Not viable. Material is specified by the customer
Personal Protective Equipment (PPE)	Hair nets	Uknown	Amenity areas		Not viable. Material is specified by the customer
Personal Protective Equipment (PPE)	Chain mail	Uknown	Amenity areas		Not viable. Material is specified by the customer
Personal Protective Equipment (PPE)	Aprons	Uknown	Amenity areas		Not viable. Material is specified by the customer