

Attachment G.1 – Raw Materials and Product

Table G.1 (overleaf) contains details of all raw materials, substances, fuels, and energy used in the operation of the site.

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Table G.1 Details of Process related Raw Materials, Intermediates, Products, etc., used or generated on the site.

Ref. N ^o or Code	Material / Substance ⁽¹⁾	CAS Number	Danger ⁽²⁾ Category	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	R ⁽³⁾ – Phrase	S ⁽³⁾ – Phrase
	Kleenkil (or similar) - Coco benzyl dimethyl ammonium chloride (<10%) - Fatty alcohol ethoxylates (<20%)	61789-71-7 68131-39-5	Irritant Corrosive & Harmful Harmful	250 litres	900 litres	Bin Wash	R36/38 R22/34 R22/36/38	S24/25 - -
	Fragrance Pear (or similar) - Isopentyl acetate (<10%)	123-92-2	- Flammable	200 litres	1000 litres	Bin Wash / Deodourising	R10	-
	Nalco Oxygen Scavenger 3 (or similar) - Sodium bisulfite		Irritant	200 litres	1000 litres	Boiler Water Treatment	R31, R36/37/38	S24/25, S26, S28, S37/38
	Nalco NDT Confidence 40C (or similar) - 2 Diethylamnioethanol - Sodium bisulfite - Sodium sulfite - Potassium sulfite		Corrosive	200 litres	1000 litres	Boiler Water Treatment	R31, R34	S23, S24/25, S26, S28, S37/39, S45
	Diesel fuel	68334-30-5	Harmful	200litres	2000 litres	Fork lift operation	R40	S36/S37

	Lubricating Oil	74869-22-0	Toxic	250litres	800 litres	Shredder gear box	R45	S45, S53
	Electricity	N/a	N/a	N/a	1.523m kWh	Site Operations	N/a	N/a
	Natural Gas	N/a	N/a	N/a	510000 m3	Packaged Steam Boiler	N/a	N/a

- Notes: 1. In case where material comprises a number of distinct and available dangerous substances, please give details for each component substance.
2. c.f. Article 2(2) of SI N^o 77/94
3. c.f. Schedules 2 and 3 of SI N^o 77/94

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Attachment G.2 – Energy Efficiency

The site uses only relatively small amounts of energy. Anticipated energy consumption details are provided in Table G.1 (above).

The energy efficiency of the entire process has been considered when developing the design of the extended site. For example, the process has been modified such that the waste from the treatment (disinfection) process is fed directly to the recovery (process) instead of into flexible IBCs reducing the energy required to produce a dry flock.

If the existing waste handling arrangements were retained and the waste was held for 48 hours prior to processing in the recovery plant the heat from the treatment process would have been lost as the waste cooled to ambient temperatures. This energy would then need to be added again in the dryer to drive off the water in the waste. Given the high water content of the flock the energy required would be substantial.

In addition, energy efficiency of the entire process will be maintained by the regular scheduled maintenance of the boiler natural gas burner and through the maintenance of drives and gear transmission systems.

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