

ATTACHMENT G
RESOURCE USE & ENERGY EFFICIENCY

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G.1 Raw Materials, Substances, Preparations and Energy

The following Table G.1 lists the raw materials used on site and indicates the amount stored and the annual usage.

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

Ref. No 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
Enduron 10W-40	Engine Oil (Castrol)	83846-43-9 68649-42-3	Not dangerous	300 litres	1800 litres	To protect engine life in vehicles and machinery, extends oil drain intervals in engines.	R52/53 R51-53	None specified
	Hydraulic Oil			300 litres	800 litres	To power the hydraulic rams for on-site waste handling equipment and waste collection vehicles		
AF1	Antifreeze (Castrol)	203-473-3	Harmful	25 litres	25 litres	To prevent cooling water freezing in the engines of on-site waste handling equipment and waste collection vehicles	R22	S2 S13 S24/25 S43/16 S46 S56
TQ-D	Automatic transmission fluid	None specified	Not dangerous	25 litres	25 litres	To be used for automatic transmissions and power steering fitted to many types of vehicles.	None specified	None specified
Bodywash Super	Bodywash Super	5064-31-3 68439-46-3 61791-10-4 1310-58-3	Not dangerous	300 litres	900 litres	Cleaner – Castrol Bodywash Super is a multi-purpose detergent cleaner specifically developed for the effective removal of all types of traffic film from commercial vehicles and off-highway plant	R22, R36, R36/38, R41, R51/53, R35	None specified

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

Ref. No 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
Techniclean DG1	Emulsifiable Degreaser	64742-94-5 64742-81-0 68439-46-3	Harmful Toxic to aquatic organisms	20 litres	20 litres	Castrol Techniclean DG1 is a general purpose emulsifiable solvent cleaner for removing oil, grease, soft carbon, fuel combustion products, and tar.	R22, R65, R41, R66, R67, R51/53	None specified
Moly Grease	Grease	None specified	Not dangerous	25 litres	75 litres	Lubricating mechanical moving parts on plant and vehicles to minimise wear and tear	None specified	None specified
ACL 000 Grease	Grease	None specified	Not dangerous	25 litres	75 litres	Lubricating mechanical moving parts on plant and vehicles to minimise wear and tear	None specified	None specified
EPX 80W-90	Gear Oil	None specified	Not dangerous	300 litres	600 litres	For use waste collection and handling vehicles	None specified	None specified
Rat Poison supplied by ECO Lab (external contractor) as poison block units				40-50 units	40-50 units	Used as poison on site to control nuisance associated with vermin	None specified	None specified
N/A	Acetylene Gas	00074-86-2	Extremely flammable	96 kg	192 kg	For Cutting and Heating Metal e.g. skip repair or modification work	R5/6/12	S9, S16, S33A
N/A	Oxygen Gas			96 kg	192 kg	For Cutting and Heating Metal e.g. skip repair or modification work		

Please note that Green diesel and White diesel are sourced off-site. There is also no storage of heating oil at the facility.

G.2 Energy Efficiency

It is estimated that material usage at the Facility and for the haulage vehicles is estimated to be 15% for the Plant and 85% for haulage vehicles. Therefore most of the energy usage will be subsumed by the waste collection vehicles.

The amount of material usage by the waste collection vehicles will be minimized through the implementation of a regular maintenance programme and be regularly updating the fleet with modern equipment which will use less material.

The amount of material used by the plant on site will also be minimized through regular maintenance. Plant such as the teleporters and balers will only be turned on intermittently during each working day when sufficient volumes of material are available to process. This will further reduce the volume of material used on site and thus reduce energy consumption.

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