Application to the relevant hazardous substances authority (planning authority)

The Planning (Hazardous Substances) Act 1990 - Section 7(1)

England - The Planning (Hazardous Substances) Regulations 2015 (Regulation 5)

Wales - The Planning (Hazardous Substances) (Wales) Regulations 2015 (Regulation 5)

Application for Hazardous Substances Consent

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Applicant	Lubrizol Limited
Address	Albion Road, Carlton Industrial Estate
	Barnsley, South Yorkshire
Post code	S71 3HW
Telephone number	01226 721107
Person in control of the land to which the application relates, if different to above	
Address	
Post code	
Telephone number	

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Address or other location details of application site	Albion Road
	Carlton Industrial Estate
	Barnsley, South Yorkshire
Post code	S71 3HW
OS grid ref	SE 36481 09501

3 **Hazardous substance(s) covered by the application**

(a) List named substances falling within Part 2 of Schedule 1 to the Regulations first, then list any substances falling within the categories in Part 1 of that Schedule; finally list substances falling within the description in Part 3.

(b) Substances falling within Parts 1 or 3 of Schedule 1 to the Regulations may be listed under the relevant category or description or named specifically. Where a substance falls within Part 1 and 2 list under Part 2 only; where a substance falls within more than one category in Part 1 list under the category which has the lowest controlled quantity. Where a substance falling within Part 1 or 2 also falls within Part 3 list under the Part which has the lowest controlled quantity. The "controlled quantity" means the quantity specified for that substance in column 2 of Parts 1, 2 or 3 of Schedule 1 to the Regulations.

Note: The addition rule as set out in the schedule to the regulations should be applied to determine whether consent is required for substances below the Controlled Quantity. Examples are given in the associated planning guidance. The Planning (Hazardous Substances) (Amendment) Regulations 2017 are relevant to the use of the addition rule in England only. The Planning (Hazardous Substances) (Amendment) Regulations 2015 are relevant to Q* (addition rule) for LPG, and relevant to notes about ammonium nitrate.

Table A

Name, or relevant category or description of substance	*Part number in Schedule 1 to the Regulations, and entry number if Part 2, category if Part 1, identity if Part 3*	*Do you have a current PHS consent* in respect of this substance? (Yes/No)*	*If "yes", state quantity for which consent granted*	*Maximum quantity proposed to be present in tonnes*
Hazardous to the Aquatic Environment	Part 1 Cat E1	No		150
Hazardous to the Aquatic Environment	Part 1 Cat E2	No		50

*a hazardous substances consent

Where in Table A consent is sought for any substance below the relevant Control Quantity, give the reason in the box below including the calculation for each relevant type of hazard (health, physical and/or environmental) with the q/Q fractions that add to greater than or equal to 1.

No calculations for health and physical hazards has been undertaken as these materials are not present on site or only present in minimal quantities versus the relevant the Lower Tier qualifying thresholds
(Cat E1) 150/100 + (Cat E2) 50/200 = 1.75 [0.0.85 vs Upper tier threshold]

4 Manner in which substance(s) are to be kept and used

For each substance, category or description of substance, covered by the application, provide the following information, referring to the substance location plan where appropriate.

"vessel" means any container designed or adapted to contain hazardous substances which is affixed to the land, and includes a container which forms part of plant or machinery which is affixed to the land but does not include a pipeline.

"Buried" or "Mounded" vessel includes a vessel which is only partially buried or partially mounded.

"moveable container" means any container designed or adapted to contain hazardous substances other than a vessel.

(a) Tick one box below to show whether the substance(s) will be present for storage only **or** will be stored and involved in a manufacturing, treatment or other industrial process:

Table B

Substance including Part no. in Sch. 1 to the Regs, and entry no. if Part 2, category if Part 1, identity if Part 3	*Storage only*	*Stored and involved in an industrial process*
Part 1, Cat. E1 (chlorinated paraffin, zinc borate & related Myflam products		√
Part 1 Cat. E2 (ethoxylated alcohols)		√

(b) For each vessel to be used for **storing** the substance(s) give the following information:

Table C (i)

*Vessel No**	*Substance including Part no. in Sch. 1 to the Regs, and entry no. if Part 2, category if Part 1, identity if Part 3*	*Installed above ground† (Yes/No)*	*Buried (Yes/No)*	*Mounded (Yes/No)*	*Maximum capacity (cubic metres)*	*Highest vessel design temperature °C*	*Highest vessel design pressure (bar absolute)*
D1662	Part 1, Cat E1	Yes	No	No	4	n/a	n/a

* identify by reference to substance location plan

† if "Yes", specify whether or not it will be provided with full secondary containment

(c) For each substance, category, or description of substance, state the largest size (capacity in cubic metres) of any **moveable** container(s) to be used for that substance, category, or description of substances:

Table C (ii)

Substance including Part no. in Sch. 1 to the Regs, and entry no. if Part 2, category if Part 1, identity if Part 3	*Storage area on site**	*Maximum capacity (cubic metres) of individual moveable containers*
Part 1, Cat. E1	Pop-up Warehouse	$1m^3$ (IBC)
Part 1 Cat. E2	Pop-up Warehouse	$1m^3$ (IBC)

* identify by reference to substance location plan

(d) Where a substance, category or description of substance is to be used in a **manufacturing, treatment or other industrial process(es)**, give a general description of the process(es), describe the major items of plant which will contain the substance(s); and state the maximum quantity (in tonnes) which is liable to be present in the major items of the plant, and the maximum temperature (°C) and pressure (bar absolute) at which the substance, category or description of substance is liable to be present:

Table D

Substance including Part no. in Schedule 1 to the Regs, and entry no. if Part 2, category if Part 1, identity if Part 3	*Description of process(es)*	*Major items of plant**	*Max. quantity (tonnes)*	*Max. temp. (°C)*	*Max. pressure (bar absolute)*
Part 1, Cat. E1	Non-reactive blending	Blend vessel	6	Ambient	1
Part 1 Cat. E2	Non-reactive blending	Blend vessel	2	Ambient	1

* identify by reference to substance location plan

5 Additional Information

(a) If you have an existing PHS consent(s) as referred to in Table A, **attach a copy of each consent** to this application.

(b) **List the maps or plans** or any explanatory scale drawings of plant/buildings submitted with this application (**as a minimum submit a site map and a substance location plan** – see **Notes** below).

- Site map
- Substance location plan

(c) Provide a brief overview description of the **main activities** carried out or proposed to be carried out on the land to which the application relates.

The establishment manufactures flame retardant and non-flame-retardant textile coatings which are supplied to external coatings companies for treatment of upholstery and window dressing fabrics .

The manufacturing process involves the non-reactive blending of chemical additives with polymers. All manufacture is carried out at ambient temperature and pressure. There are no solvents or flammable materials involved in the manufacturing process.

Chlorinated paraffin is a significant raw material in the manufacturing process and is used directly from IBC's or formulated into an internal dispersion and dispensed from a small internal storage tank. The chlorinated paraffin is a Part 1 Cat. E1 material and is used in such concentrations that the downstream products are also classified Part 1 cat. E1.

Bulk powder handling in bag sizes 500 – 1000kg is a feature of several of the manufacturing operations.

There are a number of other manufacturing lines which include powder milling of ink dispersions and blending of industrial cleaning and lubrication fluids. The latter involves some Part 1 Cat. E2 substances and takes place in a 2 tonne blend vessel.
The site is fully bunded to prevent escape of materials.

The site is certified to ISO14001:2015.

(d) Provide details of how each relevant substance is proposed to be transported to and from the land to which the application relates, for example the size and frequency of vehicle deliveries, the size or maximum flow rate of pipeline imports/exports.

Substance including Part number in Schedule 1 to the Regulations, and entry number if Part 2, category if Part 1, identity if Part 3	*How, and other details such as frequency and quantity, transported to and from the land to which the application relates*	
	Transported to site	*Transported from site*
Part 1, Cat. E1	Chlorinated paraffin transported in bulk road tanker (23 tonnes) approximately 6 deliveries per year. Zinc borate powder in bulk sacks 20 x 500kg on curtain side trailer. Approximately 6 deliveries per year.	
Part 1, Cat.E1		Shipped out in IBC's on curtain side trailers for UK & Europe (full or part loads) on a daily basis + Occasional marine shipping container to Asia/US

(e) Provide details of the vicinity of the land to which the application relates, where such details are relevant to the risks or consequences of a major accident (relevant details include numbers of people in neighbouring developments that could be affected by a major accident and details about environmentally sensitive receptors).

The establishment occupies 5 acres and sits on the edge of Carlton Industrial Estate. Carlton Beck runs immediately adjacent to the eastern boundary of the site and is the receptor for much of the surface water which falls on roofs and hardstanding areas. The surface water passes through an oil interceptor before entering the Beck. A manually operated penstock valve is fitted on the interceptor outlet to contain spillages.

Neighbouring facilities include soft drinks warehousing, logistics, timber products manufacturing, PVC window frame and glazing systems. To the Eastern boundary beyond

Carlton Beck is a public footpath and open grassland rising to a small housing estate and junior school (approx 400 metres)

Search by postcode did not reveal any nearby COMAH sites. Lubrizol are not aware of any activities on nearby sites that could adversely impact its own operations leading to a major accident.

The scope for a major accident appears limited to a partial or full collapse of racking leading to punctures of multiple IBC's whose contents may escape the confines of the warehouse and cause contamination of surrounding unmade ground. If not successfully remediated, rainwater may cause marine pollutants to migrate to Carlton Beck (approx 10 metres) and impair the quality of the watercourse. The Beck itself is not classified as a main river but is a minor tributary of the River Dearne. The Beck does pass through private land with grazing livestock. Contaminated firewater run off may have a similar impact although the warehouse presents a very low fire risk and the materials stored there are almost exclusively mineral or fire retarding in nature.

(f) Provide a brief overview of the measures taken or proposed to be taken to limit the consequences of a major accident.

Fire – There is significant containment for firewater run-off from the manufacturing areas. There is no containment from a fire in the new pop up warehouse and potential for contamination of the surrounding unmade ground. However, emphasis is on fire prevention and this is aided by the chemical characteristics of the substances stored which tend to be fire retarding or mineral in nature. The site has automatic fire detection in the manufacturing areas and some of its warehousing space.

Spillage – Bulk deliveries, including chlorinated paraffin, are discharged at specific locations on site which are designed to contain spillages and direct them to the sites internal wastewater containment and treatment facilities. There is sufficient containment for at least the full contents of a standard road tanker.

IBC outloading takes place in an area served by surface water drains. The contents of a ruptured IBC may flow into a drain gulley and be directed to Carlton Beck via an oil interceptor. The site recognized this possibility and in 2018 installed a Penstock Valve to isolate surface water drain from the Beck. In addition, the site operates a spill procedure which is trained across all its production and logistics operators.

The site has a certified environmental management system (ISO14001:2015) and its HSE programs are audited independently every 5 years by Lubrizol's corporate HSE group. In addition, all its perceived hazardous operations have been subject to HAZOP study with corrective actions implemented as required.

The site operates a management of change process to identify and mitigate incidents associated with planned changes to its operations.

(g) Give any further information which you consider to be relevant to the determination of this application. (For example, details about any exempted established substances on site or a copy

of any notification about 'other establishments'/exempted established substances if already submitted).

(Will print as blank space if no further information provided)

I/We hereby apply for hazardous substances consent in accordance with the proposals described in the application

[redacted]

on behalf of LUBRIZOL LIMITED
(insert name of person in control of the land if different to applicant)

Date 3.8.2020

To be accompanied by the notices and certificates required by regulations 6 and 7 of the Regulations.

Notes

"**Site map**" is a map, reproduced from, or based on, an Ordnance Survey map with a scale of not less than 1:10,000, which identifies the land to which the application relates and shows National Grid lines and reference numbers.

"**Substance location plan**" is a plan of the land to which the application relates, drawn to a scale of not less than 1:2,500, which identifies-

(a) any area of land intended to be used for the storage of the substance;
(b) where the substance is to be used in a manufacturing, treatment or other industrial process, the location of the major items of plant involved in that process in which the substance will be present; and
(c) access points to and from the land.