3202104 49P

Application to the relevant hazardous substances authority (planning authority)

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

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

Application for Hazardous Substances Consent

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Applicant	Johnson Matthey Plc
Address	Pimlico Industrial Area
	West Bradford Road, Clitheroe, Lancashire
Post code	BB7 4QB
Telephone number	01200 422493

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	Johnson Matthey Plc
	Pimlico Industrial Estate
	West Bradford Road, Clitheroe, Lancashire
Post code	BB7 4QB
OS grid ref	7471 4307

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 Planning (Hazardous Substances) (Amendment) Regulations 2015 are relevant to Q* (addition rule) for LPG, and relevant to notes about ammonium nitrate.

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? (Existing consent reference to 1992 regulations)*	*If "yes", state quantity for which consent granted, tonnes*	*Requested consent Maximum quantity proposed to be present in tonnes*
Substances Classified as P8 Oxidising Liquids and Solids, Category 1, 2 & 3, Overall Site Quantity, Total (201.5 T)				
Overall site Quantity			178.5 T	Total 201.5 T
Potassium Nitrate or Sodium Nitrate Solid/ Solution [Crystalline solid, hexahydrate or solution]	Part 1	Yes, Part B, 3 Location Oa(S), Oa(M)1, Oa(M)2 & Oa(M)3	*110 T*	*132 T (additional 22 T requested at location Oa(Truck)*
Cerium Nitrate [Hexahydrate or solution]	Part 1	Yes , Part B, 3 Location, Of(S)	*4 T*	*5 T (additional 1T requested at same location)s*
Substances classified as E1 Hazardous to the aquatic environment in category Acute 1 or Chronic 1				
Overall Site Quantity	Part 1	Yes	2604 T	***Total (2842 T)***
Zinc carbonate	Part 1	Yes, Part B10(i), Location , DEi(S)1	150 T	*200 T*
E1 Hazardous to the aquatic environment in category Acute 1 or Chronic 1 [Previously Ni Hydroxy Carbonate]	Part 1	Yes, Part B10(i), Location DEk(S)	5 T	*10 T*
E1 Hazardous to the aquatic environment . in category Acute 1 or Chronic 1 [Previously Ni Hydroxy Carbonate]	Part 1	Yes, Part B 10(i) Nickel Hydroxy carbonate, Location DEk(M)2	1 T	*1 T*
E1 Hazardous to the aquatic environment in category Acute 1 or Chronic 1 [Previously Products containing Zinc Oxide – Despatch area]	Part 1	Yes, Part B, 10(i) Location DEa(S)2	189 T	*300 T*
E1 Hazardous to the aquatic environment in category Acute 1 or Chronic 1 (New area and quantity)		E(R)1	n/a	*50T*
E1 Hazardous to the aquatic environment in category Acute 1 or Chronic 1 (New area and quantity)		E(R)2	n/a	*22T*

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:

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***
P8 Oxidising Liquids and Solids, Category 2 & 3		✓
E1 Hazardous to the aquatic environment in category Acute 1 or Chronic 1		✓

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

*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)*	*Secondary Containment Provided*	*Buried (Yes/No)*	*Mounded (Yes/No)*	*Maximum capacity (cubic metres)*	*Highest vessel design temperature °C*	*Highest vessel design pressure (bar absolute)*

No changes

(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:

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* (Map reference)***	***Maximum capacity (cubic metres) of individual moveable containers***	***Deliveries/Collections per month if applicable***
Cerium Nitrate [*Hexahydrate or solution]* *Potassium Nitrate or Sodium Nitrate Solid/ Solution [Crystalline solid, hexahydrate or solution]*	Of(S) Oa(S)Truck	0.025 T Bags, 1 Tonne FIBC's or 1T ($1m^3$) IBC's 1 Tonne FIBC	1 Road truck delivery every 3 months 1 Road truck collection per day (22T)
E1 Hazardous to the aquatic environment in category Acute 1 or Chronic 1	DEi(S)1, DEa(S)2, DEi(S)3, E(R)1, E(R)2, DEk(S)	0.025 T Bags, 220 Kgs drums. 1 Tonne FIBC's or 1T ($1m^3$) IBC's	No change

* identify by reference to substance location plan

- Transport of goods around site is conducted on private roads.

(d) For each substance, category, or description of substance, state major storage locations of relevant substances.

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****	**Map Reference**	***Requested Consent at Location Maximum capacity (cubic metres)/ Tonnes***
P8 Oxidising Liquids and Solids, Category 1, 2 & 3			
Potassium Nitrate or Sodium Nitrate [Crystalline solid, hexahydrate or solution]	Truck	Oa(S)Truck	22 T in 1T bags
Cerium Nitrate [hexahydrate or solution]	RMS	Of(S)	4.5T
E1 Hazardous to the aquatic environment in category Acute 1 or Chronic 1 (Solids / Liquids)			
	Storage area on site*	***Map Reference***	***Requested consent at location Maximum capacity (cubic metres)/ Tonnes***
Zinc Carbonate	RMS	DEi(S)1	200 T
E1 Hazardous to the aquatic environment in category Acute 1 or Chronic 1 [Previously Ni Hydroxy Carbonate]	RMS	DEk(S)	10 T
E1 Hazardous to the aquatic environment in category Acute 1 or Chronic 1 [Previously Zinc Carbonate 9 plant]	9 Plant	DEi(S)2	50 T
E1 Hazardous to the aquatic environment in category Acute 1 or Chronic 1 [Previously Zinc Carbonate 31 plant]	31 Plant	DEi(S)3	25 T
E1 Hazardous to the aquatic environment in category Acute 1 or Chronic 1 [Previously Product containing Zinc oxide – despatch area]	Marshalling area	DEa(S)2	300 T
Boundary Change affecting substances classified as E1 Hazardous to the aquatic environment in category Acute 1 or Chronic **(New Locations and additional inventory Request)**	21 Plant	DEm(M)3 DEa(S)3	40 T 12 T
Classified as E1 Hazardous to the aquatic environment in category Acute 1 or Chronic 1 (Solids)	Behind 40 Plant RMS Yard	E(R)2 E(R)1	22 T 50T
Boundary change of North Site complex only, substances/quantities remain same.	Dea(M)3, DEi(M)2, DEj(M)2, DEi(S)2, DEi(M)8	Dea(M)3, DEi(M)2, DEj(M)2, DEi(S)2, DEi(M)8	No change

(e) 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:

9 Plant: Use of raw materials, Formation of intermediates, heat treatment, formation of Products and packing.

Existing Consent	Requested Consent
DEa(M)3 Zinc Oxide powder mixing and pellet formation 9 plant, 1.5 T	DEa(M)3, Powder mixing and pellet formation using materials classified as E1 Hazardous to the aquatic environment in category acute 1 or chronic 1, 1.5T
DEi(M)2 Zinc carbonate powder mixing and pellet formation 9 plant, 1.5 T	DEi(M)2, Powder mixing and pellet formation using materials classified as E1 Hazardous to the aquatic environment in category acute 1 or chronic 1, 1.5 T
DEj(M)2 Copper Carbonate, powder mix and pellet formation Copper II Carb/ Copper Hydroxide, 27T	DEj(M)2, Powder mixing and pellet formation using materials classified as E1 Hazardous to the aquatic environment in category acute 1 or chronic 1, 27T
DEi(S)2 Products containing Zinc carbonate 9 plant, 50 T	DEi(S)2, Products classified as E1 Hazardous to the aquatic environment in category acute 1 or chronic 1, 50 T
DEa(M)8 Products containing Zinc Oxide, 5T	DEi(M)8, Products classified as E1 Hazardous to the aquatic environment in category acute 1 or chronic 1, 5T

Substance including Part no. in Schedule 1 to the 2015 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/m³)***	***Max. temp. (°C)***	***Max. pressure (bar absolute)***
E1 Hazardous to the aquatic environment in category acute 1 or chronic 1 At Locations DEa(M)3, DEi(M)2, DEj(M)2, DEi(S)2, DEi(M)8	Raw material loading and mixing	9H13,9H12 9H14, 9H15, 9H16, 9H17 9H18, 9H19	1m³ each 0.5 m³ each 0.56 m³ each	Ambient	Atmospheric
	Mixing and aging	9S2 & 9S3 9H4 9H20	1.75 m³ each 6.86 m³ 1500 ltr	Ambient	Atmospheric
	Drying	9B1	Up to 1 T per hour feed	700	Atmospheric
	Packing	9H24, 9H25	0.3 m³ each	Ambient	Atmospheric

21 Plant: Addition of Heat Treatment Process and addition of major item of plant.

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**	*Location on Map*	*Max. quantity (tonnes/m³)*	*Max. temp. (°C)*	*Max. pressure (bar absolute)*
E1 Hazardous to the aquatic environment in category Acute 1 or Chronic 1	Calcining	21B5110	E1(M1)	1T	500	Atmospheric
E1 Hazardous to the aquatic environment in category Acute 1 or Chronic 1	Packing	21H5111	E1(M)2	1T	140	Atmospheric

28 Plant: Addition of heat treatment process via 28B110 and 28B5 Category E1 Hazardous to the Aquatic Environment Acute 1 or Chronic 1

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**	*Location on Map*	*Max. quantity (tonnes/m³)*	*Max. temp. (°C)*	*Max. pressure (bar absolute)*
E1 Hazardous to the aquatic environment in category Acute 1 or Chronic 1	Calcining	28B110	E1(M)3	1 T	500	Atmospheric
E1 Hazardous to the aquatic environment in category Acute 1 or Chronic 1	Calcining	28B5	E1(M)4	0.4 T	350	+/- 130 mbarg
E1 Hazardous to the aquatic environment in category Acute 1 or Chronic 1	Packing	28H111	E1(M)5	1T	140	Atmospheric

31 Plant: Use of raw materials, Formation of Intermediates, Heat Treatment, formation of products and packing.

Existing Consent	Requested Consent
DEa(M)6, Zinc Oxide, Powder mixing and pellet formation, 31 plant, 5T	DEa(M)6, Powder mixing and pellet formation using materials classified as E1 Hazardous to the aquatic environment in category acute 1 or chronic 1, 31 plant, 5T
DEi(M)4, Zinc carbonate, Powder mixing and pellet formation, 31 plant, 5T	DEi(M)4, Powder mixing and pellet formation using materials classified as E1 Hazardous to the aquatic environment in category acute 1 or chronic 1, 31 plant, 5T
DEj(M)4 Copper Carbonate/Copper (II) Hydroxide, Powder mixing and pellet formation, 31 plant, 74 T	DEj(M)4, Powder mixing and pellet formation using materials classified as E1 Hazardous to the aquatic environment in category acute 1 or chronic 1, 31 plant, 74T
DEi(S)3 Product containing Zinc Carbonate, 31 plant, 25T	DEi(S)3, Products classified as E1 Hazardous to the aquatic environment in category acute 1 or chronic 1, 31 plant, 25T
DEa(M)10, Zinc Oxide, 31 plant, 10T	DEa(M)10, Products classified as E1 Hazardous to the aquatic environment in category acute 1 or chronic 1, 31 plant, 10T

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/m³)***	***Max. temp. (°C)***	***Max. pressure (bar absolute)***
E1 Hazardous to the aquatic environment in category Acute 1 or Chronic 1 Location DEa(M)6, DEi(M)4, DEj(M)4 DEi(S)3, DEa(M)10	Raw material loading	31H2, 31H3, 31H4, 31H5, 31H6 31H7 31H41, 31H42 & 31H43	2m³ / 4 T 2m³ / 4 T each 6m³ / 12 T each 0.227m³ / 0.5 T 0.5m³ / 1T 0.32m³ / 0.32 T	Ambient	Atmospheric
	Mixing & aging	31S44 31S45 31H48	0.5m³ / 1T 0.23 m³ / 0.5 T 0.931 m³ / 2T	Ambient 50 50	Atmospheric
	Drying	31B2	Up to 1 T per hour feed	350	Atmospheric
	Packing	31H55	0.343 m³ / 0.7 T	Ambient	Atmospheric

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.

Existing consent reference

(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).

Existing Documentation
Hazardous Substance Consent 3/2014/0759 dated 29/6/2015
SYNCL-00-13-06299, Existing substance location plan.
Application dated 21/8/2014

New Documentation
SYNCL-41-13-21036 HSE Hazardous Substances Consent Potassium or Sodium Nitrate Detail Changes.
SYNCL-00-60-22990, Substance location plan changes overview
SYNCL-00-13-24241, Changes of location plan/Changes E1 Substances Hazardous to the Aquatic Environment.
Johnson Matthey Plc, Site Map
SYNCL-00-13-21035, Change of location plan / Changes hazardous substances, oxidisers (P8).

(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 main activities conducted are the receipt and storage of raw materials used in the production of catalysts. This production processes involve mixing, creation of intermediates, heat treatment and packaging. The site also manufactures raw materials by conducting reactions.

(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*
Road truck (see section 4c above)	X	X

(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).

Our COMAH safety report issued in 2019 to the competent authority identifies no off-site major accident hazards with regards to health. The site has boundaries which include housing and a school. Our COMAH safety report has identified major accident hazards which could affect water courses and sewers including the River Ribble, contributory streams & becks (Cemetery beck

and Knunck Knowles) and also via a potential discharge to the United Utilities WwTW at Clitheroe. Details are provided in the COMAH safety report.
A letter was provided by the Health & Safety Executive dated 5/12/2019, reference 1027569, regarding our PIZ and it states that our safety risks to people are low and as such our PIZ is co-terminus with the site boundary. This application is foreseen not to result in a change of this status.

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

Risk reduction, containment, emergency plans. Details are provided in our COMAH safety report, emergency procedures and offsite plan with Lancashire County Council.

(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).

No comment.

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

Sig[redacted]

on behalf of ...Johnson Matthey Plc.....
(insert name of person in control of the land if different to applicant)

Date 27/4/2021

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.