SCHEDULE 1

Activities, installations and mobile plant

PART 2

Activities

CHAPTER 4

The chemical industry

Interpretation of Chapter 4

1. In Part A(1) of the Sections of this Chapter, "producing" means the production on an industrial scale by chemical or biological processing of substances or groups of substances listed in the relevant Sections.

SECTION 4.1

Organic chemicals

Interpretation of Section 4.1

1. In this Section, "pre-formulated resin or pre-formulated gel coat" means any resin or gel coat which has been formulated before being introduced into polymerisation or co-polymerisation activity, whether or not the resin or gel coat contains a colour pigment, activator or catalyst.

Part A(1)

- (a) Producing organic chemicals such as—
 - (i) hydrocarbons (linear or cyclic, saturated or unsaturated, aliphatic or aromatic);
 - (ii) organic compounds containing oxygen (for example alcohols, aldehydes, ketones, carboxylic acids, esters, ethers, peroxides, phenols, epoxy resins);
 - (iii) organic compounds containing sulphur (for example sulphides, mercaptans, sulphonic acids, sulphonates, sulphates and sulphones and sulphur heterocyclics);
 - (iv) organic compounds containing nitrogen (for example amines, amides, nitrous-, nitroor azo-compounds, nitrates, nitriles, nitrogen heterocyclics, cyanates, isocyanates, di-isocyanates and di-isocyanate prepolymers);
 - (v) organic compounds containing phosphorus (for example substituted phosphines and phosphate esters);
 - (vi) organic compounds containing halogens (for example halocarbons, halogenated aromatic compounds and acid halides);
 - (vii) organometallic compounds (for example lead alkyls, Grignard reagents and lithium alkyls);
 - (viii) plastic materials (for example polymers, synthetic fibres and cellulose-based fibres);
 - (ix) synthetic rubbers;
 - (x) dyes and pigments;
 - (xi) surface-active agents.

Part B

- (a) Unless falling within Part A(1) of this Section, any activity where the carrying on of the activity by the person concerned at the location in question is likely to involve the use in any 12-month period of 5 or more tonnes of any di-isocyanate or of any partly polymerised di-isocyanate or, in aggregate, of both.
- (b) The flame bonding or cutting with heated wires of polyurethane foams or polyurethane elastomers.
- (c) Any activity for the polymerisation or co-polymerisation of any pre-formulated resin or pre-formulated gel coat which contains any unsaturated hydrocarbon, where the activity is likely to involve, in any 12-month period, the polymerisation or co-polymerisation of 100 or more tonnes of unsaturated hydrocarbon.
- (d) Unless falling within Part A(1) of this Section, any activity involving the use of toluene di-isocyanate or partly polymerised di-isocyanate if—
 - (i) less than 5 tonnes of toluene di-isocyanate monomer is likely to be used in any 12-month period, and
 - (ii) the activity may result in a release into the air which contains toluene di-isocyanate.

Organic chemicals

Interpretation of Section 4.1

1. In this Section, "pre-formulated resin or pre-formulated gel coat" means any resin or gel coat which has been formulated before being introduced into polymerisation or co-polymerisation activity, whether or not the resin or gel coat contains a colour pigment, activator or catalyst.

Part A(1)

- (a) Producing organic chemicals such as—
 - (i) hydrocarbons (linear or cyclic, saturated or unsaturated, aliphatic or aromatic);
 - (ii) organic compounds containing oxygen (for example alcohols, aldehydes, ketones, carboxylic acids, esters, ethers, peroxides, phenols, epoxy resins);
 - (iii) organic compounds containing sulphur (for example sulphides, mercaptans, sulphonic acids, sulphonates, sulphates and sulphones and sulphur heterocyclics);
 - (iv) organic compounds containing nitrogen (for example amines, amides, nitrous-, nitroor azo-compounds, nitrates, nitriles, nitrogen heterocyclics, cyanates, isocyanates, di-isocyanates and di-isocyanate prepolymers);
 - (v) organic compounds containing phosphorus (for example substituted phosphines and phosphate esters);
 - (vi) organic compounds containing halogens (for example halocarbons, halogenated aromatic compounds and acid halides);
 - (vii) organometallic compounds (for example lead alkyls, Grignard reagents and lithium alkyls);
 - (viii) plastic materials (for example polymers, synthetic fibres and cellulose-based fibres);
 - (ix) synthetic rubbers;
 - (x) dyes and pigments;
 - (xi) surface-active agents.

Part B

- (a) Unless falling within Part A(1) of this Section, any activity where the carrying on of the activity by the person concerned at the location in question is likely to involve the use in any 12-month period of 5 or more tonnes of any di-isocyanate or of any partly polymerised di-isocyanate or, in aggregate, of both.
- (b) The flame bonding or cutting with heated wires of polyurethane foams or polyurethane elastomers.
- (c) Any activity for the polymerisation or co-polymerisation of any pre-formulated resin or pre-formulated gel coat which contains any unsaturated hydrocarbon, where the activity is likely to involve, in any 12-month period, the polymerisation or co-polymerisation of 100 or more tonnes of unsaturated hydrocarbon.
- (d) Unless falling within Part A(1) of this Section, any activity involving the use of toluene di-isocyanate or partly polymerised di-isocyanate if—
 - (i) less than 5 tonnes of toluene di-isocyanate monomer is likely to be used in any 12-month period, and
 - (ii) the activity may result in a release into the air which contains toluene di-isocyanate.

SECTION 4.2

Inorganic chemicals

Part A(1)

- (a) Producing inorganic chemicals such as—
 - (i) gases (for example ammonia, hydrogen chloride, hydrogen fluoride, hydrogen cyanide, hydrogen sulphide, oxides of carbon, sulphur compounds, oxides of nitrogen, hydrogen, oxides of sulphur, phosgene);
 - (ii) acids (for example chromic acid, hydrofluoric acid, hydrochloric acid, hydroiodic acid, phosphoric acid, nitric acid, sulphuric acid, oleum and chlorosulphonic acid);
 - (iii) bases (for example ammonium hydroxide, potassium hydroxide, sodium hydroxide);
 - (iv) salts (for example ammonium chloride, potassium chlorate, potassium carbonate, sodium carbonate, perborate, silver nitrate, cupric acetate, ammonium phosphomolybdate);
 - (v) non-metals, metal oxides, metal carbonyls or other inorganic compounds (for example calcium carbide, silicon, silicon carbide, titanium dioxide);
 - (vi) halogens or interhalogen compounds comprising two or more of halogens, or any compound comprising one or more of those halogens and oxygen.
- (b) Unless falling within any other Section, any manufacturing activity which is likely to result in the release into the air of any hydrogen halide (other than the manufacture of glass or the coating, plating or surface treatment of metal) or which is likely to result in the release into the air or water of any halogen or any of the compounds mentioned in paragraph (a) (vi) (other than the treatment of water).
- (c) Unless falling within any other Section, any manufacturing activity (other than the application of a glaze or vitreous enamel) involving the use of, or the use or recovery of, any compound of any of the following elements—
 - (i) antimony,
 - (ii) arsenic,

- (iii) beryllium,
- (iv) gallium,
- (v) indium,
- (vi) lead,
- (vii) palladium,
- (viii) platinum,
- (ix) selenium,
- (x) tellurium,
- (xi) thallium,

where the activity may result in the release into the air of any of those elements or compounds or the release into water of any substance listed in paragraph 7(1) of Part 1 of this Schedule.

- (d) Recovering any compound of cadmium or mercury.
- (e) Unless falling within any other Section, any manufacturing activity involving the use of mercury or cadmium or any compound of either element or which may result in the release into the air of either of those elements or their compounds.
- (f) Unless falling within any other Section, any activity (other than the combustion or incineration of carbonaceous material as defined in the Interpretation of Part A(1) of Section 1.2) which is likely to result in the release into the air of any acid-forming oxide of nitrogen.

SECTION 4.3

Chemical fertiliser production

Part A(1)

(a) Producing (including any blending which is related to their production) phosphorus-, nitrogen- or potassium-based fertilisers (simple or compound fertilisers).

SECTION 4.4

Plant health products and biocides

Part A(1)

(a) Producing plant health products or biocides.

SECTION 4.5

Pharmaceutical production

Part A(1)

(a) Producing pharmaceutical products.

SECTION 4.6

Explosives production

Part A(1)

(a) Producing explosives.

SECTION 4.7

Manufacturing activities involving carbon disulphide or ammonia

Part A(1)

(a) Any activity for the manufacture of a chemical which may result in the release of ammonia into the air, other than an activity in which ammonia is only used as a refrigerant.

SECTION 4.8

The storage of chemicals in bulk

Part B

- (a) The storage in tanks, other than in tanks for the time being forming part of a powered vehicle, of any of the substances listed below, except where the total storage capacity of the tanks installed at the location in question in which the relevant substance may be stored is less than the figure specified below in relation to that substance—
 - (i) one or more acrylates, 20 tonnes (in aggregate);
 - (ii) acrylonitrile, 20 tonnes;
 - (iii) anhydrous ammonia, 100 tonnes;
 - (iv) anhydrous hydrogen fluoride, 1 tonne;
 - (v) toluene di-isocyanate, 20 tonnes;
 - (vi) vinyl chloride monomer, 20 tonnes;
 - (vii) ethylene, 8,000 tonnes.

Changes to legislation:

There are outstanding changes not yet made by the legislation.gov.uk editorial team to The Environmental Permitting (England and Wales) Regulations 2016. Any changes that have already been made by the team appear in the content and are referenced with annotations. View outstanding changes

Changes and effects yet to be applied to:

- Regulations excluded in part by S.I. 2024/564 art. 6(1)

Changes and effects yet to be applied to the whole Instrument associated Parts and Chapters:

Whole provisions yet to be inserted into this Instrument (including any effects on those provisions):

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Sch. 9 Pt. 2 para. 2(3) inserted by S.I. 2023/1156 reg. 2(6)
Sch. 9 Pt. 2 para. 4(5)(aa) inserted by S.I. 2023/1156 reg. 2(7)(c)(i)
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- Sch. 9 Pt. 2 para. 4(6A) inserted by S.I. 2023/1156 reg. 2(7)(e)

Sch. 9 Pt. 2 para. 5(6)(aa) inserted by S.I. 2023/1156 reg. 2(8)(c)(i)
Sch. 9 Pt. 2 para. 5(6A) inserted by S.I. 2023/1156 reg. 2(8)(d)

- Sch. 9 Pt. 2 para. 5(7A) inserted by S.I. 2023/1156 reg. 2(8)(f)

- Sch. 9 Pt. 2 para. 5(11) inserted by S.I. 2023/1156 reg. 2(8)(i)

Sch. 9 Pt. 2 para. 6(1)(ba) inserted by S.I. 2023/1156 reg. 2(9)(d)

- Sch. 9 Pt. 2 para. 6(1)(h) inserted by S.I. 2023/1156 reg. 2(9)(h)

Sch. 9 Pt. 2 para. 8 inserted by S.I. 2023/1156 reg. 2(12)

- Sch. 9 Pt. 2 para. 7(3)(d)-(f) omitted by S.I. 2023/1156 reg. 2(11)(b)(iii)

- Sch. 9 Pt. 2 para. 7(4)(f)-(h) omitted by S.I. 2023/1156 reg. 2(11)(c)(vi)

- Sch. 9 Pt. 2 para. 7(5) omitted by S.I. 2023/1156 reg. 2(11)(d)

- Sch. 9 Pt. 2 para. 2(2)(a) substituted by S.I. 2023/1156 reg. 2(5)(b)

- Sch. 9 Pt. 2 para. 4(2) substituted by S.I. 2023/1156 reg. 2(7)(a)

Sch. 9 Pt. 2 para. 5(2) substituted by S.I. 2023/1156 reg. 2(8)(a)
 Sch. 9 Pt. 2 para. 5(8) substituted by S.I. 2023/1156 reg. 2(8)(g)

- Sch. 9 Pt. 2 para. 5(8) substituted by S.I. 2023/1156 reg. 2(8)(g)
- Sch. 9 Pt. 2 para. 6(1)(b) substituted by S.I. 2023/1156 reg. 2(9)(c)

- Sch. 9 Pt. 2 para. 6(1)(f) substituted by S.I. 2023/1156 reg. 2(9)(f)

Sch. 9 Pt. 2 para. 4(6)(a)-(j) substituted for Sch. 9 Pt. 2 para. 4(6)(a)-(d) by S.I. 2023/1156 reg. 2(7)(d)(ii)

Sch. 9 Pt. 2 para. 4(8)(9) substituted for Sch. 9 Pt. 2 para. 4(8) by S.I. 2023/1156 reg. 2(7)(g)

Sch. 9 Pt. 2 para. 2(2)(b) word inserted by S.I. 2023/1156 reg. 2(5)(c)

- Sch. 9 Pt. 2 para. 6(1)(g) word inserted by S.I. 2023/1156 reg. 2(9)(g)(ii)

Sch. 9 Pt. 2 para. 4(6) word omitted by S.I. 2023/1156 reg. 2(7)(d)(i)(bb)

- Sch. 9 Pt. 2 para. 5(7) word omitted by S.I. 2023/1156 reg. 2(8)(e)(ii)

- Sch. 9 Pt. 2 para. 6(1)(g) word omitted by S.I. 2023/1156 reg. 2(9)(g)(iii)

Sch. 9 Pt. 2 para. 2(1) word substituted by S.I. 2023/1156 reg. 2(4)(a)

Sch. 9 Pt. 2 para. 2(2) word substituted by S.I. 2023/1156 reg. 2(5)(a)

Sch. 9 Pt. 2 para. 4(3) word substituted by S.I. 2023/1156 reg. 2(7)(b)

- Sch. 9 Pt. 2 para. 4(6) word substituted by S.I. 2023/1156 reg. 2(7)(d)(i)(aa)

Sch. 9 Pt. 2 para. 1(2) words inserted by S.I. 2023/1156 reg. 2(3)

Sch. 9 Pt. 2 para. 2(1) words inserted by S.I. 2023/1156 reg. 2(4)(b)

Sch. 9 Pt. 2 para. 2(1) words inserted by S.I. 2023/1156 reg. 2(4)(g)

Sch. 9 Pt. 2 para. 2(1) words inserted by S.I. 2023/1156 reg. 2(4)(h)(ii)

- Sch. 9 Pt. 2 para. 2(1) words inserted by S.I. 2023/1156 reg. 2(4)(h)(iii)

Sch. 9 Pt. 2 para. 2(1) words inserted by S.I. 2023/1156 reg. 2(4)(i)

Sch. 9 Pt. 2 para. 4(5)(b) words inserted by S.I. 2023/1156 reg. 2(7)(c)(ii)

- Sch. 9 Pt. 2 para. 5(6)(b) words inserted by S.I. 2023/1156 reg. 2(8)(c)(ii)

- Sch. 9 Pt. 2 para. 5(7) words inserted by S.I. 2023/1156 reg. 2(8)(e)(i)

- Sch. 9 Pt. 2 para. 5(7) Table words inserted by S.I. 2023/1156 reg. 2(8)(e)(iii)

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Sch. 9 Pt. 2 para. 5(7) Table words inserted by S.I. 2023/1156 reg. 2(8)(e)(iv)
Sch. 9 Pt. 2 para. 5(7) Table words inserted by S.I. 2023/1156 reg. 2(8)(e)(v)
Sch. 9 Pt. 2 para. 6(1) words inserted by S.I. 2023/1156 reg. 2(9)(a)
Sch. 9 Pt. 2 para. 6(1)(a) words inserted by S.I. 2023/1156 reg. 2(9)(b)
Sch. 9 Pt. 2 para. 6(1)(c) words inserted by S.I. 2023/1156 reg. 2(9)(e)
Sch. 9 Pt. 2 para. 6(1)(d) words inserted by S.I. 2023/1156 reg. 2(9)(e)
Sch. 9 Pt. 2 para. 6(1)(e) words inserted by S.I. 2023/1156 reg. 2(9)(e)
Sch. 9 Pt. 2 para. 6(2)(a) words inserted by S.I. 2023/1156 reg. 2(10)(a)
Sch. 9 Pt. 2 para. 7(2)(a) words inserted by S.I. 2023/1156 reg. 2(11)(a)
Sch. 9 Pt. 2 para. 7(3)(a) words inserted by S.I. 2023/1156 reg. 2(11)(b)(i)
Sch. 9 Pt. 2 para. 7(3)(c) words inserted by S.I. 2023/1156 reg. 2(11)(b)(ii)
Sch. 9 Pt. 2 para. 7(4)(c) words inserted by S.I. 2023/1156 reg. 2(11)(c)(iv)
Sch. 9 Pt. 2 para. 7(4)(e) words inserted by S.I. 2023/1156 reg. 2(11)(c)(v)
Sch. 9 Pt. 2 para. 2(1) words omitted by S.I. 2023/1156 reg. 2(4)(d)
Sch. 9 Pt. 2 para. 7(4) words omitted by S.I. 2023/1156 reg. 2(11)(c)(i)
Sch. 9 Pt. 2 para. 2(1) words substituted by S.I. 2023/1156 reg. 2(4)(c)
Sch. 9 Pt. 2 para. 2(1) words substituted by S.I. 2023/1156 reg. 2(4)(e)
Sch. 9 Pt. 2 para. 2(1) words substituted by S.I. 2023/1156 reg. 2(4)(f)
Sch. 9 Pt. 2 para. 2(1) words substituted by S.I. 2023/1156 reg. 2(4)(h)(i)
Sch. 9 Pt. 2 para. 4(7) words substituted by S.I. 2023/1156 reg. 2(7)(f)
Sch. 9 Pt. 2 para. 5(5) words substituted by S.I. 2023/1156 reg. 2(8)(b)
Sch. 9 Pt. 2 para. 5(10) words substituted by S.I. 2023/1156 reg. 2(8)(h)
Sch. 9 Pt. 2 para. 6(1)(g) words substituted by S.I. 2023/1156 reg. 2(9)(g)(i)
Sch. 9 Pt. 2 para. 6(2)(b) words substituted by S.I. 2023/1156 reg. 2(10)(b)
Sch. 9 Pt. 2 para. 7(4)(a) words substituted by S.I. 2023/1156 reg. 2(11)(c)(ii)
Sch. 9 Pt. 2 para. 7(4)(b) words substituted by S.I. 2023/1156 reg. 2(11)(c)(iii)
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