

R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"

determinand: "Cadmium sulphide"

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

determinand: "Nickel dihydroxide"

Note L

from section: 1.1.3.1, Annex VI in the document: "[CLP Regulations](#)"

"The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3."

Note used on:

determinand: "Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified"

Version

Classification utilises the following:

CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008

1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26

September 2009; binding date 1 Dec 2010

2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30


March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08

HazWasteOnline Engine Version: 1.0.4463.31887 (13 May 2012)

HazWasteOnline Database: 1.0.1949.4627 (09 Mar 2012)

Classification

 **Non Hazardous Waste**
Classified as **17 05 04**
in the European Waste Catalogue 2002

Classified by

Name:
Forton, Osric
Date:
24/05/2012 10:36
Telephone:
020 7631 5291

Company:
Ramboll UK Ltd
60 Newman Street
London
W1T 3DA

Sample details

Sample Name:

TP24MGC

Site:

Project:

EWC 2002 code:

Chapter: **17: Construction and Demolition Wastes (including excavated soil from contaminated sites)**

Entry: **17 05 04 (Soil and stones other than those mentioned in 17 05 03)**

Sample Depth:

2.5 m

Wet Weight Moisture Content:

26.3%

Comments:

Hazard properties

None identified

Additional: Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R14 "Reacts violently with water"

Because of determinand:

Boron tribromide/trichloride/trifluoride (combined risk phrases): (0.0027%)

R33 "Danger of cumulative effects"

Because of determinands:

Lead compounds (with the exception of those listed separately in this Annex): (0.0077%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.000022%)

Determinands (Wet Weight Moisture Content:26.3%)

Acenaphthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)

Acenaphthylene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)

Anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)

Arsenic trioxide: (Cation conc. entered: 5.8 mg/kg, converted to compound conc.:5.64 mg/kg or 0.00056%)

Benzo[a]anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)

Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)

Benzo[b]fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)

Benzo[ghi]perylene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)
 Benzo[k]fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)
 Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: 2.7 mg/kg, converted to compound conc.:26.72 mg/kg or 0.0027%)
 Cadmium sulphide: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.095 mg/kg or 0.0000095%)
 Chromium(III) oxide: (Cation conc. entered: 16 mg/kg, converted to compound conc.:17.23 mg/kg or 0.0017%)
 Chrysene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)
 Copper (I) oxide: (Cation conc. entered: 19 mg/kg, converted to compound conc.:15.77 mg/kg or 0.0016%)
 Dibenz[a,h]anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)
 Fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)
 Fluorene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)
 Indeno[123-cd]pyrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)
 Lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 69 mg/kg, converted to compound conc.:76.79 mg/kg or 0.0077%)
 Mercury dichloride: (Cation conc. entered: 0.65 mg/kg, converted to compound conc.:0.65 mg/kg or 0.000065%)
 Naphthalene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)
 Nickel dihydroxide: (Cation conc. entered: 16 mg/kg, converted to compound conc.:18.63 mg/kg or 0.0019%)
 Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 10 mg/kg or 0.00074%)
 Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 10 mg/kg or 0.00074%)
 Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 10 mg/kg or 0.00074%)
 Oils: PAHs (8) as carcinogenic marker for oils: (Whole concentration entered as: 0.7 mg/kg or 0.000052%)
 Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified: (Whole concentration entered as: 10 mg/kg or 0.00074%)
 PAHs (total): (Whole concentration entered as: 2 mg/kg or 0.00015%)
 pH: (Whole concentration entered as: 7.6 pH or 7.60 pH)
 Phenanthrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)
 Pyrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)
 Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.2 mg/kg, converted to compound conc.:0.22 mg/kg or 0.000022%)
 Zinc sulphate: (Cation conc. entered: 44 mg/kg, converted to compound conc.:80.07 mg/kg or 0.0080%)

Notes utilised in assessment

Additional Risk Phrase Comments

from section: Table 3.1 in the document: "[WM2 - Hazardous Waste Technical Guidance](#)"

"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R14" for determinand: "Boron tribromide/trichloride/trifluoride (combined risk phrases)"

Test: "Additional on R33" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C14.5.5: Step 5

from section: C14.5 in the document: "[WM2 - Hazardous Waste Technical Guidance](#)"

"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Anthracene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[ghi]perylene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Acenaphthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]anthracene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]pyrene; benzo[def]chrysene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[b]fluoranthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[k]fluoranthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Chrysene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Dibenz[a,h]anthracene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Fluorene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Mercury dichloride"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Naphthalene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "PAHs (total)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Pyrene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc sulphate"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"

Note 1

from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

Substance notes

Note 1

from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
 determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

Note A

from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"

"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Note E (Table 3.2)

from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"

"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22,

R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"

determinand: "Cadmium sulphide"

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

determinand: "Nickel dihydroxide"

Note L

from section: 1.1.3.1, Annex VI in the document: "[CLP Regulations](#)"

"The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3."

Note used on:

determinand: "Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified"

Version

Classification utilises the following:

CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008

1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26

September 2009; binding date 1 Dec 2010

2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30

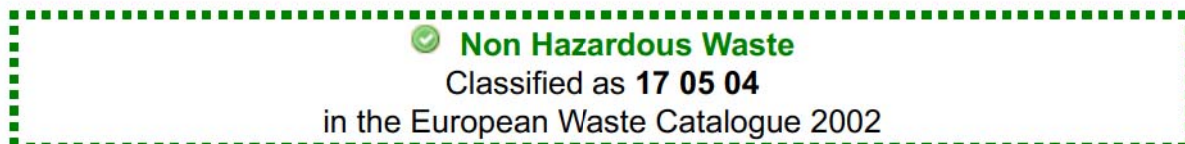
March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08

HazWasteOnline Engine Version: 1.0.4463.31887 (13 May 2012)

HazWasteOnline Database: 1.0.1949.4627 (09 Mar 2012)

Classification



Classified by

Name:
Forton, Osric
Date:
24/05/2012 10:36
Telephone:
020 7631 5291

Company:
Ramboll UK Ltd
60 Newman Street
London
W1T 3DA

Sample details

Sample Name:

TP07MGC

Site:

Project:

EWC 2002 code:

Chapter: **17: Construction and Demolition Wastes (including excavated soil from contaminated sites)**

Entry: **17 05 04 (Soil and stones other than those mentioned in 17 05 03)**

Sample Depth:

2.8 m

Wet Weight Moisture Content:

25.8%

Comments:

Hazard properties

None identified

Additional: Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R14 "Reacts violently with water"

Because of determinand:

Boron tribromide/trichloride/trifluoride (combined risk phrases): (0.0012%)

R33 "Danger of cumulative effects"

Because of determinands:

Lead compounds (with the exception of those listed separately in this Annex): (0.0090%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.000022%)

Determinands (Wet Weight Moisture Content:25.8%)

Acenaphthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)

Acenaphthylene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)

Anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)

Arsenic trioxide: (Cation conc. entered: 7.7 mg/kg, converted to compound conc.:7.54 mg/kg or 0.00075%)

Benzo[a]anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)

Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)

Benzo[b]fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)

Benzo[ghi]perylene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)
 Benzo[k]fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)
 Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: 1.2 mg/kg, converted to compound conc.:11.96 mg/kg or 0.0012%)
 Cadmium sulphide: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.095 mg/kg or 0.0000095%)
 Chromium(III) oxide: (Cation conc. entered: 16 mg/kg, converted to compound conc.:17.35 mg/kg or 0.0017%)
 Chrysene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)
 Copper (I) oxide: (Cation conc. entered: 18 mg/kg, converted to compound conc.:15.04 mg/kg or 0.0015%)
 Dibenz[a,h]anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)
 Fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)
 Fluorene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)
 Indeno[123-cd]pyrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)
 Lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 80 mg/kg, converted to compound conc.:89.63 mg/kg or 0.0090%)
 Mercury dichloride: (Cation conc. entered: 0.54 mg/kg, converted to compound conc.:0.54 mg/kg or 0.000054%)
 Naphthalene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)
 Nickel dihydroxide: (Cation conc. entered: 12 mg/kg, converted to compound conc.:14.06 mg/kg or 0.0014%)
 Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 8 mg/kg or 0.00059%)
 Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 0.6 mg/kg or 0.000045%)
 Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 4 mg/kg or 0.00030%)
 Oils: PAHs (8) as carcinogenic marker for oils: (Whole concentration entered as: 0.7 mg/kg or 0.000052%)
 Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified: (Whole concentration entered as: 5.1 mg/kg or 0.00038%)
 PAHs (total): (Whole concentration entered as: 2 mg/kg or 0.00015%)
 pH: (Whole concentration entered as: 7.4 pH or 7.40 pH)
 Phenanthrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)
 Pyrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000074%)
 Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.2 mg/kg, converted to compound conc.:0.22 mg/kg or 0.000022%)
 Zinc sulphate: (Cation conc. entered: 42 mg/kg, converted to compound conc.:76.95 mg/kg or 0.0077%)

Notes utilised in assessment

Additional Risk Phrase Comments

from section: Table 3.1 in the document: "[WM2 - Hazardous Waste Technical Guidance](#)"

"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R14" for determinand: "Boron tribromide/trichloride/trifluoride (combined risk phrases)"

Test: "Additional on R33" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C14.5.5: Step 5

from section: C14.5 in the document: "[WM2 - Hazardous Waste Technical Guidance](#)"

"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Anthracene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[ghi]perylene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Acenaphthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]anthracene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]pyrene; benzo[def]chrysene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[b]fluoranthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[k]fluoranthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Chrysene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Dibenz[a,h]anthracene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Fluorene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Mercury dichloride"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Naphthalene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "PAHs (total)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Pyrene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc sulphate"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"

Note 1

from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

Substance notes

Note 1

from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
 determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

Note A

from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"

"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Note E (Table 3.2)

from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"

"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22,

R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"

determinand: "Cadmium sulphide"

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

determinand: "Nickel dihydroxide"

Note L

from section: 1.1.3.1, Annex VI in the document: "[CLP Regulations](#)"

"The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3."

Note used on:

determinand: "Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified"

Version

Classification utilises the following:

CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008

1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26

September 2009; binding date 1 Dec 2010

2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30


March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08

HazWasteOnline Engine Version: 1.0.4463.31887 (13 May 2012)

HazWasteOnline Database: 1.0.1949.4627 (09 Mar 2012)

Classification

 **Non Hazardous Waste**
Classified as **17 05 04**
in the European Waste Catalogue 2002

Classified by

Name:
Forton, Osric
Date:
24/05/2012 10:36
Telephone:
020 7631 5291

Company:
Ramboll UK Ltd
60 Newman Street
London
W1T 3DA

Sample details

Sample Name:

TP21MGC

Site:

Project:

EWC 2002 code:

Chapter: **17: Construction and Demolition Wastes (including excavated soil from contaminated sites)**

Entry: **17 05 04 (Soil and stones other than those mentioned in 17 05 03)**

Sample Depth:

3.5 m

Wet Weight Moisture Content:

15.3%

Comments:

Hazard properties

None identified

Additional: Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R14 "Reacts violently with water"

Because of determinand:

Boron tribromide/trichloride/trifluoride (combined risk phrases): (0.0019%)

R33 "Danger of cumulative effects"

Because of determinands:

Lead compounds (with the exception of those listed separately in this Annex): (0.024%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.000025%)

Determinands (Wet Weight Moisture Content:15.3%)

Acenaphthene: (Whole concentration entered as: 0.46 mg/kg or 0.000039%)

Acenaphthylene: (Whole concentration entered as: 0.47 mg/kg or 0.000040%)

Anthracene: (Whole concentration entered as: 0.72 mg/kg or 0.000061%)

Arsenic trioxide: (Cation conc. entered: 20 mg/kg, converted to compound conc.:22.37 mg/kg or 0.0022%)

Benzo[a]anthracene: (Whole concentration entered as: 1.5 mg/kg or 0.00013%)

Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: 1.4 mg/kg or 0.00012%)

Benzo[b]fluoranthene: (Whole concentration entered as: 1.6 mg/kg or 0.00014%)

Benzo[ghi]perylene: (Whole concentration entered as: 0.96 mg/kg or 0.000081%)
 Benzo[k]fluoranthene: (Whole concentration entered as: 1.3 mg/kg or 0.00011%)
 Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: 1.7 mg/kg, converted to compound conc.:19.34 mg/kg or 0.0019%)
 Cadmium sulphide: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.11 mg/kg or 0.000011%)
 Chromium(III) oxide: (Cation conc. entered: 16 mg/kg, converted to compound conc.:19.81 mg/kg or 0.0020%)
 Chrysene: (Whole concentration entered as: 1.8 mg/kg or 0.00015%)
 Copper (I) oxide: (Cation conc. entered: 48 mg/kg, converted to compound conc.:45.77 mg/kg or 0.0046%)
 Dibenz[a,h]anthracene: (Whole concentration entered as: 0.23 mg/kg or 0.000019%)
 Fluoranthene: (Whole concentration entered as: 3.5 mg/kg or 0.00030%)
 Fluorene: (Whole concentration entered as: 0.23 mg/kg or 0.000019%)
 Indeno[123-cd]pyrene: (Whole concentration entered as: 1.1 mg/kg or 0.000093%)
 Lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 190 mg/kg, converted to compound conc.:243.00 mg/kg or 0.024%)
 Mercury dichloride: (Cation conc. entered: 1 mg/kg, converted to compound conc.:1.15 mg/kg or 0.00011%)
 Naphthalene: (Whole concentration entered as: 0.66 mg/kg or 0.000056%)
 Nickel dihydroxide: (Cation conc. entered: 30 mg/kg, converted to compound conc.:40.14 mg/kg or 0.0040%)
 Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 10 mg/kg or 0.00085%)
 Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 10 mg/kg or 0.00085%)
 Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 10 mg/kg or 0.00085%)
 Oils: PAHs (8) as carcinogenic marker for oils: (Whole concentration entered as: 8.93 mg/kg or 0.00076%)
 Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified: (Whole concentration entered as: 10 mg/kg or 0.00085%)
 PAHs (total): (Whole concentration entered as: 21 mg/kg or 0.0018%)
 pH: (Whole concentration entered as: 7.9 pH or 7.90 pH)
 Phenanthrene: (Whole concentration entered as: 2.5 mg/kg or 0.00021%)
 Pyrene: (Whole concentration entered as: 2.6 mg/kg or 0.00022%)
 Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.2 mg/kg, converted to compound conc.:0.25 mg/kg or 0.000025%)
 Zinc sulphate: (Cation conc. entered: 79 mg/kg, converted to compound conc.:165.23 mg/kg or 0.017%)

Notes utilised in assessment

Additional Risk Phrase Comments

from section: Table 3.1 in the document: "[WM2 - Hazardous Waste Technical Guidance](#)"

"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R14" for determinand: "Boron tribromide/trichloride/trifluoride (combined risk phrases)"

Test: "Additional on R33" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C14.5.5: Step 5

from section: C14.5 in the document: "[WM2 - Hazardous Waste Technical Guidance](#)"

"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Anthracene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[ghi]perylene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Acenaphthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]anthracene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]pyrene; benzo[def]chrysene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[b]fluoranthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[k]fluoranthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Chrysene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Dibenz[a,h]anthracene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Fluorene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Mercury dichloride"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Naphthalene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "PAHs (total)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Pyrene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc sulphate"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"

Note 1

from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

Substance notes

Note 1

from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
 determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

Note A

from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"

"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Note E (Table 3.2)

from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"

"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22,

R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"

determinand: "Cadmium sulphide"

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

determinand: "Nickel dihydroxide"

Note L

from section: 1.1.3.1, Annex VI in the document: "[CLP Regulations](#)"

"The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3."

Note used on:

determinand: "Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified"

Version

Classification utilises the following:

CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008

1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26

September 2009; binding date 1 Dec 2010

2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30


March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08

HazWasteOnline Engine Version: 1.0.4463.31887 (13 May 2012)

HazWasteOnline Database: 1.0.1949.4627 (09 Mar 2012)

Classification

 **Non Hazardous Waste**
Classified as **17 05 04**
in the European Waste Catalogue 2002

Classified by

Name:
Forton, Osric
Date:
24/05/2012 10:36
Telephone:
020 7631 5291

Company:
Ramboll UK Ltd
60 Newman Street
London
W1T 3DA

Sample details

Sample Name:

TP03LC

Site:

Project:

EWC 2002 code:

Chapter: **17: Construction and Demolition Wastes (including excavated soil from contaminated sites)**

Entry: **17 05 04 (Soil and stones other than those mentioned in 17 05 03)**

Sample Depth:

2.7 m

Wet Weight Moisture Content:

23.3%

Comments:

Hazard properties

None identified

Additional: Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R14 "Reacts violently with water"

Because of determinand:

Boron tribromide/trichloride/trifluoride (combined risk phrases): (0.00088%)

R33 "Danger of cumulative effects"

Because of determinands:

Lead compounds (with the exception of those listed separately in this Annex): (0.0037%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.000023%)

Determinands (Wet Weight Moisture Content:23.3%)

Acenaphthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)

Acenaphthylene: (Whole concentration entered as: 0.33 mg/kg or 0.000025%)

Anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)

Arsenic trioxide: (Cation conc. entered: 28 mg/kg, converted to compound conc.:28.36 mg/kg or 0.0028%)

Benzo[a]anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)

Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)

Benzo[b]fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)

Benzo[ghi]perylene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Benzo[k]fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: 0.85 mg/kg, converted to compound conc.:8.76 mg/kg or 0.00088%)
 Cadmium sulphide: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.099 mg/kg or 0.0000099%)
 Chromium(III) oxide: (Cation conc. entered: 62 mg/kg, converted to compound conc.:69.50 mg/kg or 0.0070%)
 Chrysene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Copper (I) oxide: (Cation conc. entered: 39 mg/kg, converted to compound conc.:33.68 mg/kg or 0.0034%)
 Dibenz[a,h]anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Fluoranthene: (Whole concentration entered as: 0.18 mg/kg or 0.000014%)
 Fluorene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Indeno[123-cd]pyrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 32 mg/kg, converted to compound conc.:37.06 mg/kg or 0.0037%)
 Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.10 mg/kg or 0.000010%)
 Naphthalene: (Whole concentration entered as: 0.37 mg/kg or 0.000028%)
 Nickel dihydroxide: (Cation conc. entered: 82 mg/kg, converted to compound conc.:99.34 mg/kg or 0.0099%)
 Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 10 mg/kg or 0.00077%)
 Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 10 mg/kg or 0.00077%)
 Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 10 mg/kg or 0.00077%)
 Oils: PAHs (8) as carcinogenic marker for oils: (Whole concentration entered as: 0.7 mg/kg or 0.000054%)
 Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified: (Whole concentration entered as: 10 mg/kg or 0.00077%)
 PAHs (total): (Whole concentration entered as: 2 mg/kg or 0.00015%)
 pH: (Whole concentration entered as: 8.4 pH or 8.40 pH)
 Phenanthrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Pyrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.2 mg/kg, converted to compound conc.:0.23 mg/kg or 0.000023%)
 Zinc sulphate: (Cation conc. entered: 98 mg/kg, converted to compound conc.:185.61 mg/kg or 0.019%)

Notes utilised in assessment

Additional Risk Phrase Comments

from section: Table 3.1 in the document: "[WM2 - Hazardous Waste Technical Guidance](#)"

"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R14" for determinand: "Boron tribromide/trichloride/trifluoride (combined risk phrases)"

Test: "Additional on R33" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C14.5.5: Step 5

from section: C14.5 in the document: "[WM2 - Hazardous Waste Technical Guidance](#)"

"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Anthracene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[ghi]perylene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Acenaphthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]anthracene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]pyrene; benzo[def]chrysene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[b]fluoranthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[k]fluoranthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Chrysene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Dibenz[a,h]anthracene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Fluorene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Mercury dichloride"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Naphthalene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "PAHs (total)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Pyrene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc sulphate"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"

Note 1

from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

Substance notes

Note 1

from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
 determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

Note A

from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"

"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Note E (Table 3.2)

from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"

"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22,

R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"

determinand: "Cadmium sulphide"

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

determinand: "Nickel dihydroxide"

Note L

from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"

"The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3."

Note used on:

determinand: "Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified"

Version

Classification utilises the following:

CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008

1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26

September 2009; binding date 1 Dec 2010

2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30


March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08

HazWasteOnline Engine Version: 1.0.4463.31887 (13 May 2012)

HazWasteOnline Database: 1.0.1949.4627 (09 Mar 2012)

Classification

 **Non Hazardous Waste**
Classified as **17 05 04**
in the European Waste Catalogue 2002

Classified by

Name:
Forton, Osric
Date:
24/05/2012 10:36
Telephone:
020 7631 5291

Company:
Ramboll UK Ltd
60 Newman Street
London
W1T 3DA

Sample details

Sample Name:

TP15LC

Site:

Project:

EWC 2002 code:

Chapter: **17: Construction and Demolition Wastes (including excavated soil from contaminated sites)**

Entry: **17 05 04 (Soil and stones other than those mentioned in 17 05 03)**

Sample Depth:

3.5 m

Wet Weight Moisture Content:

22.7%

Comments:

Hazard properties

None identified

Additional: Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R14 "Reacts violently with water"

Because of determinand:

Boron tribromide/trichloride/trifluoride (combined risk phrases): (0.0025%)

R33 "Danger of cumulative effects"

Because of determinands:

Lead compounds (with the exception of those listed separately in this Annex): (0.0013%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.000023%)

Determinands (Wet Weight Moisture Content:22.7%)

Acenaphthene: (Whole concentration entered as: 0.48 mg/kg or 0.000037%)

Acenaphthylene: (Whole concentration entered as: 0.38 mg/kg or 0.000029%)

Anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)

Arsenic trioxide: (Cation conc. entered: 9.3 mg/kg, converted to compound conc.:9.49 mg/kg or 0.00095%)

Benzo[a]anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)

Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)

Benzo[b]fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)

Benzo[ghi]perylene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Benzo[k]fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: 2.4 mg/kg, converted to compound conc.:24.92 mg/kg or 0.0025%)
 Cadmium sulphide: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.099 mg/kg or 0.0000099%)
 Chromium(III) oxide: (Cation conc. entered: 37 mg/kg, converted to compound conc.:41.80 mg/kg or 0.0042%)
 Chrysene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Copper (I) oxide: (Cation conc. entered: 15 mg/kg, converted to compound conc.:13.05 mg/kg or 0.0013%)
 Dibenz[a,h]anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Fluoranthene: (Whole concentration entered as: 0.19 mg/kg or 0.000015%)
 Fluorene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Indeno[123-cd]pyrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 11 mg/kg, converted to compound conc.:12.84 mg/kg or 0.0013%)
 Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.10 mg/kg or 0.000010%)
 Naphthalene: (Whole concentration entered as: 0.3 mg/kg or 0.000023%)
 Nickel dihydroxide: (Cation conc. entered: 37 mg/kg, converted to compound conc.:45.18 mg/kg or 0.0045%)
 Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 10 mg/kg or 0.00077%)
 Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 10 mg/kg or 0.00077%)
 Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 10 mg/kg or 0.00077%)
 Oils: PAHs (8) as carcinogenic marker for oils: (Whole concentration entered as: 0.7 mg/kg or 0.000054%)
 Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified: (Whole concentration entered as: 10 mg/kg or 0.00077%)
 PAHs (total): (Whole concentration entered as: 2 mg/kg or 0.00015%)
 pH: (Whole concentration entered as: 8.5 pH or 8.50 pH)
 Phenanthrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Pyrene: (Whole concentration entered as: 0.12 mg/kg or 0.0000093%)
 Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.2 mg/kg, converted to compound conc.:0.23 mg/kg or 0.000023%)
 Zinc sulphate: (Cation conc. entered: 44 mg/kg, converted to compound conc.:83.99 mg/kg or 0.0084%)

Notes utilised in assessment

Additional Risk Phrase Comments

from section: Table 3.1 in the document: "[WM2 - Hazardous Waste Technical Guidance](#)"

"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R14" for determinand: "Boron tribromide/trichloride/trifluoride (combined risk phrases)"

Test: "Additional on R33" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C14.5.5: Step 5

from section: C14.5 in the document: "[WM2 - Hazardous Waste Technical Guidance](#)"

"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Anthracene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[ghi]perylene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Acenaphthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]anthracene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]pyrene; benzo[def]chrysene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[b]fluoranthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[k]fluoranthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Chrysene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Dibenz[a,h]anthracene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Fluorene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Mercury dichloride"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Naphthalene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "PAHs (total)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Pyrene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc sulphate"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"

Note 1

from section: 1.1.3.2, Annex VI in the document: "[CLP Regulations](#)"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

Substance notes

Note 1

from section: 1.1.3.2, Annex VI in the document: "[CLP Regulations](#)"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
 determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

Note A

from section: 1.1.3.1, Annex VI in the document: "[CLP Regulations](#)"

"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Note E (Table 3.2)

from section: 1.1.3.1, Annex VI in the document: "[CLP Regulations](#)"

"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22,

R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"

determinand: "Cadmium sulphide"

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

determinand: "Nickel dihydroxide"

Note L

from section: 1.1.3.1, Annex VI in the document: "[CLP Regulations](#)"

"The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3."

Note used on:

determinand: "Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified"

Version

Classification utilises the following:

CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008

1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26

September 2009; binding date 1 Dec 2010

2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30


March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08

HazWasteOnline Engine Version: 1.0.4463.31887 (13 May 2012)

HazWasteOnline Database: 1.0.1949.4627 (09 Mar 2012)

Classification

 **Non Hazardous Waste**
Classified as **17 05 04**
in the European Waste Catalogue 2002

Classified by

Name:
Forton, Osric
Date:
24/05/2012 10:36
Telephone:
020 7631 5291

Company:
Ramboll UK Ltd
60 Newman Street
London
W1T 3DA

Sample details

Sample Name:

TP12bLC

Site:

Project:

EWC 2002 code:

Chapter: **17: Construction and Demolition Wastes (including excavated soil from contaminated sites)**

Entry: **17 05 04 (Soil and stones other than those mentioned in 17 05 03)**

Sample Depth:

3.8 m

Wet Weight Moisture Content:

22.6%

Comments:

Hazard properties

None identified

Additional: Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R14 "Reacts violently with water"

Because of determinand:

Boron tribromide/trichloride/trifluoride (combined risk phrases): (0.0016%)

R33 "Danger of cumulative effects"

Because of determinands:

Lead compounds (with the exception of those listed separately in this Annex): (0.0010%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.000023%)

Determinands (Wet Weight Moisture Content:22.6%)

Acenaphthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)

Acenaphthylene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)

Anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)

Arsenic trioxide: (Cation conc. entered: 11 mg/kg, converted to compound conc.:11.24 mg/kg or 0.0011%)

Benzo[a]anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)

Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)

Benzo[b]fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)

Benzo[ghi]perylene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Benzo[k]fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: 1.5 mg/kg, converted to compound conc.:15.59 mg/kg or 0.0016%)
 Cadmium sulphide: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.099 mg/kg or 0.0000099%)
 Chromium(III) oxide: (Cation conc. entered: 21 mg/kg, converted to compound conc.:23.76 mg/kg or 0.0024%)
 Chrysene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Copper (I) oxide: (Cation conc. entered: 12 mg/kg, converted to compound conc.:10.46 mg/kg or 0.0010%)
 Dibenz[a,h]anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Fluorene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Indeno[123-cd]pyrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 8.8 mg/kg, converted to compound conc.:10.28 mg/kg or 0.0010%)
 Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.10 mg/kg or 0.000010%)
 Naphthalene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Nickel dihydroxide: (Cation conc. entered: 32 mg/kg, converted to compound conc.:39.12 mg/kg or 0.0039%)
 Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 10 mg/kg or 0.00077%)
 Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 10 mg/kg or 0.00077%)
 Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 10 mg/kg or 0.00077%)
 Oils: PAHs (8) as carcinogenic marker for oils: (Whole concentration entered as: 0.7 mg/kg or 0.000054%)
 Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified: (Whole concentration entered as: 10 mg/kg or 0.00077%)
 PAHs (total): (Whole concentration entered as: 2 mg/kg or 0.00015%)
 pH: (Whole concentration entered as: 8.4 pH or 8.40 pH)
 Phenanthrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Pyrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000077%)
 Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.2 mg/kg, converted to compound conc.:0.23 mg/kg or 0.000023%)
 Zinc sulphate: (Cation conc. entered: 44 mg/kg, converted to compound conc.:84.09 mg/kg or 0.0084%)

Notes utilised in assessment

Additional Risk Phrase Comments

from section: Table 3.1 in the document: "[WM2 - Hazardous Waste Technical Guidance](#)"

"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R14" for determinand: "Boron tribromide/trichloride/trifluoride (combined risk phrases)"

Test: "Additional on R33" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C14.5.5: Step 5

from section: C14.5 in the document: "[WM2 - Hazardous Waste Technical Guidance](#)"

"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Anthracene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[ghi]perylene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Acenaphthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]anthracene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]pyrene; benzo[def]chrysene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[b]fluoranthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[k]fluoranthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Chrysene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Dibenz[a,h]anthracene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Fluorene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Mercury dichloride"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Naphthalene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "PAHs (total)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Pyrene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc sulphate"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"

Note 1

from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

Substance notes

Note 1

from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
 determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

Note A

from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"

"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Note E (Table 3.2)

from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"

"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22,

R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"

determinand: "Cadmium sulphide"

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

determinand: "Nickel dihydroxide"

Note L

from section: 1.1.3.1, Annex VI in the document: "[CLP Regulations](#)"

"The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3."

Note used on:

determinand: "Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified"

Version

Classification utilises the following:

CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008

1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26

September 2009; binding date 1 Dec 2010

2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30

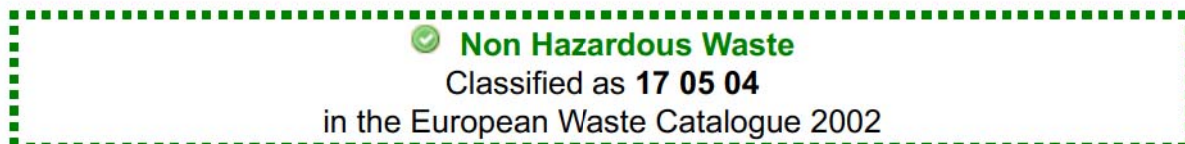
March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08

HazWasteOnline Engine Version: 1.0.4463.31887 (13 May 2012)

HazWasteOnline Database: 1.0.1949.4627 (09 Mar 2012)

Classification



Classified by

Name:
Forton, Osric
Date:
24/05/2012 10:36
Telephone:
020 7631 5291

Company:
Ramboll UK Ltd
60 Newman Street
London
W1T 3DA

Sample details

Sample Name:

TP17LC

Site:

Project:

EWC 2002 code:

Chapter: **17: Construction and Demolition Wastes (including excavated soil from contaminated sites)**

Entry: **17 05 04 (Soil and stones other than those mentioned in 17 05 03)**

Sample Depth:

3.3 m

Wet Weight Moisture Content:

21.2%

Comments:

Hazard properties

None identified

Additional: Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R14 "Reacts violently with water"

Because of determinand:

Boron tribromide/trichloride/trifluoride (combined risk phrases): (0.00086%)

R33 "Danger of cumulative effects"

Because of determinands:

Lead compounds (with the exception of those listed separately in this Annex): (0.0012%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.000024%)

Determinands (Wet Weight Moisture Content:21.2%)

Acenaphthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000079%)

Acenaphthylene: (Whole concentration entered as: 0.1 mg/kg or 0.0000079%)

Anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000079%)

Arsenic trioxide: (Cation conc. entered: 15 mg/kg, converted to compound conc.:15.61 mg/kg or 0.0016%)

Benzo[a]anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000079%)

Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: 0.1 mg/kg or 0.0000079%)

Benzo[b]fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000079%)

Benzo[ghi]perylene: (Whole concentration entered as: 0.1 mg/kg or 0.0000079%)
 Benzo[k]fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000079%)
 Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: 0.81 mg/kg, converted to compound conc.:8.57 mg/kg or 0.00086%)
 Cadmium sulphide: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.10 mg/kg or 0.000010%)
 Chromium(III) oxide: (Cation conc. entered: 24 mg/kg, converted to compound conc.:27.64 mg/kg or 0.0028%)
 Chrysene: (Whole concentration entered as: 0.1 mg/kg or 0.0000079%)
 Copper (I) oxide: (Cation conc. entered: 14 mg/kg, converted to compound conc.:12.42 mg/kg or 0.0012%)
 Dibenz[a,h]anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000079%)
 Fluoranthene: (Whole concentration entered as: 0.13 mg/kg or 0.000010%)
 Fluorene: (Whole concentration entered as: 0.1 mg/kg or 0.0000079%)
 Indeno[123-cd]pyrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000079%)
 Lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 10 mg/kg, converted to compound conc.:11.90 mg/kg or 0.0012%)
 Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.11 mg/kg or 0.000011%)
 Naphthalene: (Whole concentration entered as: 0.1 mg/kg or 0.0000079%)
 Nickel dihydroxide: (Cation conc. entered: 36 mg/kg, converted to compound conc.:44.81 mg/kg or 0.0045%)
 Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 10 mg/kg or 0.00079%)
 Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 10 mg/kg or 0.00079%)
 Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 10 mg/kg or 0.00079%)
 Oils: PAHs (8) as carcinogenic marker for oils: (Whole concentration entered as: 0.7 mg/kg or 0.000055%)
 Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified: (Whole concentration entered as: 10 mg/kg or 0.00079%)
 PAHs (total): (Whole concentration entered as: 2 mg/kg or 0.00016%)
 pH: (Whole concentration entered as: 8.4 pH or 8.40 pH)
 Phenanthrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000079%)
 Pyrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000079%)
 Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.2 mg/kg, converted to compound conc.:0.24 mg/kg or 0.000024%)
 Zinc sulphate: (Cation conc. entered: 52 mg/kg, converted to compound conc.:101.18 mg/kg or 0.010%)

Notes utilised in assessment

Additional Risk Phrase Comments

from section: Table 3.1 in the document: "[WM2 - Hazardous Waste Technical Guidance](#)"

"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R14" for determinand: "Boron tribromide/trichloride/trifluoride (combined risk phrases)"

Test: "Additional on R33" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C14.5.5: Step 5

from section: C14.5 in the document: "[WM2 - Hazardous Waste Technical Guidance](#)"

"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Anthracene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[ghi]perylene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Acenaphthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]anthracene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]pyrene; benzo[def]chrysene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[b]fluoranthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[k]fluoranthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Chrysene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Dibenz[a,h]anthracene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Fluorene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Mercury dichloride"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Naphthalene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "PAHs (total)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Pyrene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc sulphate"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"

Note 1

from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

Substance notes

Note 1

from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
 determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

Note A

from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"

"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Note E (Table 3.2)

from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"

"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22,

R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"

determinand: "Cadmium sulphide"

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

determinand: "Nickel dihydroxide"

Note L

from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"

"The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3."

Note used on:

determinand: "Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified"

Version

Classification utilises the following:

CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008

1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26

September 2009; binding date 1 Dec 2010

2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30


March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08

HazWasteOnline Engine Version: 1.0.4463.31887 (13 May 2012)

HazWasteOnline Database: 1.0.1949.4627 (09 Mar 2012)

Classification

 **Non Hazardous Waste**
Classified as **17 05 04**
in the European Waste Catalogue 2002

Classified by

Name:
Forton, Osric
Date:
24/05/2012 10:36
Telephone:
020 7631 5291

Company:
Ramboll UK Ltd
60 Newman Street
London
W1T 3DA

Sample details

Sample Name:

TP14LC

Site:

Project:

EWC 2002 code:

Chapter: **17: Construction and Demolition Wastes (including excavated soil from contaminated sites)**

Entry: **17 05 04 (Soil and stones other than those mentioned in 17 05 03)**

Sample Depth:

3 m

Wet Weight Moisture Content:

22%

Comments:

Hazard properties

None identified

Additional: Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R14 "Reacts violently with water"

Because of determinand:

Boron tribromide/trichloride/trifluoride (combined risk phrases): (0.00078%)

R33 "Danger of cumulative effects"

Because of determinands:

Lead compounds (with the exception of those listed separately in this Annex): (0.0012%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.000023%)

Determinands (Wet Weight Moisture Content:22%)

Acenaphthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)

Acenaphthylene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)

Anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)

Arsenic trioxide: (Cation conc. entered: 6.4 mg/kg, converted to compound conc.:6.59 mg/kg or 0.00066%)

Benzo[a]anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)

Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)

Benzo[b]fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)

Benzo[ghi]perylene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)
 Benzo[k]fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)
 Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: 0.74 mg/kg, converted to compound conc.: 7.75 mg/kg or 0.00078%)
 Cadmium sulphide: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.: 0.10 mg/kg or 0.000010%)
 Chromium(III) oxide: (Cation conc. entered: 20 mg/kg, converted to compound conc.: 22.80 mg/kg or 0.0023%)
 Chrysene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)
 Copper (I) oxide: (Cation conc. entered: 11 mg/kg, converted to compound conc.: 9.66 mg/kg or 0.00097%)
 Dibenz[a,h]anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)
 Fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)
 Fluorene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)
 Indeno[123-cd]pyrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)
 Lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 10 mg/kg, converted to compound conc.: 11.78 mg/kg or 0.0012%)
 Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.: 0.11 mg/kg or 0.000011%)
 Naphthalene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)
 Nickel dihydroxide: (Cation conc. entered: 29 mg/kg, converted to compound conc.: 35.73 mg/kg or 0.0036%)
 Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 10 mg/kg or 0.00078%)
 Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 10 mg/kg or 0.00078%)
 Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 10 mg/kg or 0.00078%)
 Oils: PAHs (8) as carcinogenic marker for oils: (Whole concentration entered as: 0.7 mg/kg or 0.000055%)
 Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified: (Whole concentration entered as: 10 mg/kg or 0.00078%)
 PAHs (total): (Whole concentration entered as: 2 mg/kg or 0.00016%)
 pH: (Whole concentration entered as: 8.5 pH or 8.50 pH)
 Phenanthrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)
 Pyrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)
 Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.2 mg/kg, converted to compound conc.: 0.23 mg/kg or 0.000023%)
 Zinc sulphate: (Cation conc. entered: 40 mg/kg, converted to compound conc.: 77.04 mg/kg or 0.0077%)

Notes utilised in assessment

Additional Risk Phrase Comments

from section: Table 3.1 in the document: "[WM2 - Hazardous Waste Technical Guidance](#)"

"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R14" for determinand: "Boron tribromide/trichloride/trifluoride (combined risk phrases)"

Test: "Additional on R33" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C14.5.5: Step 5

from section: C14.5 in the document: "[WM2 - Hazardous Waste Technical Guidance](#)"

"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Anthracene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[ghi]perylene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Acenaphthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]anthracene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]pyrene; benzo[def]chrysene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[b]fluoranthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[k]fluoranthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Chrysene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Dibenz[a,h]anthracene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Fluorene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Mercury dichloride"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Naphthalene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "PAHs (total)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Pyrene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc sulphate"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"

Note 1

from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

Substance notes

Note 1

from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
 determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

Note A

from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"

"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Note E (Table 3.2)

from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"

"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22,

R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"

determinand: "Cadmium sulphide"

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

determinand: "Nickel dihydroxide"

Note L

from section: 1.1.3.1, Annex VI in the document: "[CLP Regulations](#)"

"The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3."

Note used on:

determinand: "Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified"

Version

Classification utilises the following:

CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008

1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26

September 2009; binding date 1 Dec 2010

2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30


March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08

HazWasteOnline Engine Version: 1.0.4463.31887 (13 May 2012)

HazWasteOnline Database: 1.0.1949.4627 (09 Mar 2012)

Classification

 **Non Hazardous Waste**
Classified as **17 05 04**
in the European Waste Catalogue 2002

Classified by

Name:
Forton, Osric
Date:
24/05/2012 10:36
Telephone:
020 7631 5291

Company:
Ramboll UK Ltd
60 Newman Street
London
W1T 3DA

Sample details

Sample Name:

TP07LC

Site:

Project:

EWC 2002 code:

Chapter: **17: Construction and Demolition Wastes (including excavated soil from contaminated sites)**

Entry: **17 05 04 (Soil and stones other than those mentioned in 17 05 03)**

Sample Depth:

3.5 m

Wet Weight Moisture Content:

22.4%

Comments:

Hazard properties

None identified

Additional: Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R14 "Reacts violently with water"

Because of determinand:

Boron tribromide/trichloride/trifluoride (combined risk phrases): (0.0011%)

R33 "Danger of cumulative effects"

Because of determinands:

Lead compounds (with the exception of those listed separately in this Annex): (0.0027%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.000023%)

Determinands (Wet Weight Moisture Content:22.4%)

Acenaphthene: (Whole concentration entered as: 0.35 mg/kg or 0.000027%)

Acenaphthylene: (Whole concentration entered as: 0.19 mg/kg or 0.000015%)

Anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)

Arsenic trioxide: (Cation conc. entered: 27 mg/kg, converted to compound conc.:27.66 mg/kg or 0.0028%)

Benzo[a]anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)

Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)

Benzo[b]fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)

Benzo[ghi]perylene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)
 Benzo[k]fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)
 Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:11.46 mg/kg or 0.0011%)
 Cadmium sulphide: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.10 mg/kg or 0.000010%)
 Chromium(III) oxide: (Cation conc. entered: 51 mg/kg, converted to compound conc.:57.84 mg/kg or 0.0058%)
 Chrysene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)
 Copper (I) oxide: (Cation conc. entered: 26 mg/kg, converted to compound conc.:22.72 mg/kg or 0.0023%)
 Dibenz[a,h]anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)
 Fluoranthene: (Whole concentration entered as: 0.13 mg/kg or 0.000010%)
 Fluorene: (Whole concentration entered as: 0.12 mg/kg or 0.0000093%)
 Indeno[123-cd]pyrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)
 Lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 23 mg/kg, converted to compound conc.:26.95 mg/kg or 0.0027%)
 Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.11 mg/kg or 0.000011%)
 Naphthalene: (Whole concentration entered as: 0.21 mg/kg or 0.000016%)
 Nickel dihydroxide: (Cation conc. entered: 65 mg/kg, converted to compound conc.:79.67 mg/kg or 0.0080%)
 Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 10 mg/kg or 0.00078%)
 Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 10 mg/kg or 0.00078%)
 Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 10 mg/kg or 0.00078%)
 Oils: PAHs (8) as carcinogenic marker for oils: (Whole concentration entered as: 0.7 mg/kg or 0.000054%)
 Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified: (Whole concentration entered as: 10 mg/kg or 0.00078%)
 PAHs (total): (Whole concentration entered as: 2 mg/kg or 0.00016%)
 pH: (Whole concentration entered as: 8.1 pH or 8.10 pH)
 Phenanthrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)
 Pyrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000078%)
 Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.2 mg/kg, converted to compound conc.:0.23 mg/kg or 0.000023%)
 Zinc sulphate: (Cation conc. entered: 94 mg/kg, converted to compound conc.:180.12 mg/kg or 0.018%)

Notes utilised in assessment

Additional Risk Phrase Comments

from section: Table 3.1 in the document: "[WM2 - Hazardous Waste Technical Guidance](#)"

"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R14" for determinand: "Boron tribromide/trichloride/trifluoride (combined risk phrases)"

Test: "Additional on R33" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C14.5.5: Step 5

from section: C14.5 in the document: "[WM2 - Hazardous Waste Technical Guidance](#)"

"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Anthracene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[ghi]perylene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Acenaphthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]anthracene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]pyrene; benzo[def]chrysene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[b]fluoranthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[k]fluoranthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Chrysene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Dibenz[a,h]anthracene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Fluorene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Mercury dichloride"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Naphthalene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "PAHs (total)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Pyrene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc sulphate"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"

Note 1

from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

Substance notes

Note 1

from section: 1.1.3.2, Annex VI in the document: "CLP Regulations"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
 determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

Note A

from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"

"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Note E (Table 3.2)

from section: 1.1.3.1, Annex VI in the document: "CLP Regulations"

"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22,

R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"

determinand: "Cadmium sulphide"

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

determinand: "Nickel dihydroxide"

Note L

from section: 1.1.3.1, Annex VI in the document: "[CLP Regulations](#)"

"The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3."

Note used on:

determinand: "Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified"

Version

Classification utilises the following:

CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008

1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26

September 2009; binding date 1 Dec 2010

2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30


March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08

HazWasteOnline Engine Version: 1.0.4463.31887 (13 May 2012)

HazWasteOnline Database: 1.0.1949.4627 (09 Mar 2012)

Classification

 **Non Hazardous Waste**
Classified as **17 05 04**
in the European Waste Catalogue 2002

Classified by

Name:
Forton, Osric
Date:
24/05/2012 10:36
Telephone:
020 7631 5291

Company:
Ramboll UK Ltd
60 Newman Street
London
W1T 3DA

Sample details

Sample Name:

TP21LC

Site:

Project:

EWC 2002 code:

Chapter: **17: Construction and Demolition Wastes (including excavated soil from contaminated sites)**

Entry: **17 05 04 (Soil and stones other than those mentioned in 17 05 03)**

Sample Depth:

3.7 m

Wet Weight Moisture Content:

24.8%

Comments:

Hazard properties

None identified

Additional: Additional Risk Phrases "Additional risk phrases apply, please check potential effects. NOTE: These are additional risk phrases and such a risk phrases alone will not cause a waste to be hazardous."

Risk phrases hit:

R14 "Reacts violently with water"

Because of determinand:

Boron tribromide/trichloride/trifluoride (combined risk phrases): (0.0012%)

R33 "Danger of cumulative effects"

Because of determinands:

Lead compounds (with the exception of those listed separately in this Annex): (0.0017%)

Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (0.000023%)

Determinands (Wet Weight Moisture Content:24.8%)

Acenaphthene: (Whole concentration entered as: 1.3 mg/kg or 0.000098%)

Acenaphthylene: (Whole concentration entered as: 1.1 mg/kg or 0.000083%)

Anthracene: (Whole concentration entered as: 0.16 mg/kg or 0.000012%)

Arsenic trioxide: (Cation conc. entered: 15 mg/kg, converted to compound conc.:14.89 mg/kg or 0.0015%)

Benzo[a]anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000075%)

Benzo[a]pyrene; benzo[def]chrysene: (Whole concentration entered as: 0.1 mg/kg or 0.0000075%)

Benzo[b]fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000075%)

Benzo[ghi]perylene: (Whole concentration entered as: 0.1 mg/kg or 0.0000075%)
 Benzo[k]fluoranthene: (Whole concentration entered as: 0.1 mg/kg or 0.0000075%)
 Boron tribromide/trichloride/trifluoride (combined risk phrases): (Cation conc. entered: 1.2 mg/kg, converted to compound conc.:12.12 mg/kg or 0.0012%)
 Cadmium sulphide: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.097 mg/kg or 0.0000097%)
 Chromium(III) oxide: (Cation conc. entered: 33 mg/kg, converted to compound conc.:36.27 mg/kg or 0.0036%)
 Chrysene: (Whole concentration entered as: 0.1 mg/kg or 0.0000075%)
 Copper (I) oxide: (Cation conc. entered: 19 mg/kg, converted to compound conc.:16.09 mg/kg or 0.0016%)
 Dibenz[a,h]anthracene: (Whole concentration entered as: 0.1 mg/kg or 0.0000075%)
 Fluoranthene: (Whole concentration entered as: 0.12 mg/kg or 0.0000090%)
 Fluorene: (Whole concentration entered as: 0.15 mg/kg or 0.000011%)
 Indeno[123-cd]pyrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000075%)
 Lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 15 mg/kg, converted to compound conc.:17.03 mg/kg or 0.0017%)
 Mercury dichloride: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.10 mg/kg or 0.000010%)
 Naphthalene: (Whole concentration entered as: 1 mg/kg or 0.000075%)
 Nickel dihydroxide: (Cation conc. entered: 57 mg/kg, converted to compound conc.:67.70 mg/kg or 0.0068%)
 Oils: fuel oils (including DRO, C10-C25): (Whole concentration entered as: 10 mg/kg or 0.00075%)
 Oils: GRO/PRO (C6-C10): (Whole concentration entered as: 10 mg/kg or 0.00075%)
 Oils: non-fuel oils/lubricating oils (>C25): (Whole concentration entered as: 10 mg/kg or 0.00075%)
 Oils: PAHs (8) as carcinogenic marker for oils: (Whole concentration entered as: 0.7 mg/kg or 0.000053%)
 Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified: (Whole concentration entered as: 10 mg/kg or 0.00075%)
 PAHs (total): (Whole concentration entered as: 4 mg/kg or 0.00030%)
 pH: (Whole concentration entered as: 8.3 pH or 8.30 pH)
 Phenanthrene: (Whole concentration entered as: 0.21 mg/kg or 0.000016%)
 Pyrene: (Whole concentration entered as: 0.1 mg/kg or 0.0000075%)
 Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite): (Cation conc. entered: 0.2 mg/kg, converted to compound conc.:0.23 mg/kg or 0.000023%)
 Zinc sulphate: (Cation conc. entered: 63 mg/kg, converted to compound conc.:116.99 mg/kg or 0.012%)

Notes utilised in assessment

Additional Risk Phrase Comments

from section: Table 3.1 in the document: "[WM2 - Hazardous Waste Technical Guidance](#)"

"This is an additional risk phrase and such a risk phrase alone will not cause a waste to be hazardous."

Note used on:

Test: "Additional on R14" for determinand: "Boron tribromide/trichloride/trifluoride (combined risk phrases)"

Test: "Additional on R33" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

Test: "Additional on R33" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

C14.5.5: Step 5

from section: C14.5 in the document: "[WM2 - Hazardous Waste Technical Guidance](#)"

"Remove dangerous substances below the trace impurity thresholds concentrations from further consideration. Where an individual dangerous substance is present at a very low concentration it can be excluded from further consideration."

Note used on:

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Anthracene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[ghi]perylene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Acenaphthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Arsenic trioxide"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]anthracene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[a]pyrene; benzo[def]chrysene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[b]fluoranthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Benzo[k]fluoranthene"

Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Chrysene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Copper (I) oxide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Dibenz[a,h]anthracene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Fluorene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Mercury dichloride"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Naphthalene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Nickel dihydroxide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "PAHs (total)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Pyrene"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Zinc sulphate"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: fuel oils (including DRO, C10-C25)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: GRO/PRO (C6-C10)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Oils: non-fuel oils/lubricating oils (>C25)"

Note 1

from section: 1.1.3.2, Annex VI in the document: "[CLP Regulations](#)"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

Test: "H14 on R50/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R52, R53, R52/53" for determinand: "Cadmium sulphide"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 Test: "H14 on R50, R50/53, R51/53, R52, R53, R52/53" for determinand: "Cadmium sulphide"

Substance notes

Note 1

from section: 1.1.3.2, Annex VI in the document: "[CLP Regulations](#)"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

Note used on:

determinand: "Cadmium sulphide"
 determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

Note A

from section: 1.1.3.1, Annex VI in the document: "[CLP Regulations](#)"

"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

Note used on:

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"
 determinand: "Selenium compounds (with the exception of cadmium sulphoselenide and sodium selenite)"

Note E (Table 3.2)

from section: 1.1.3.1, Annex VI in the document: "[CLP Regulations](#)"

"Substances with specific effects on human health (see Chapter 4 of Annex VI to Directive 67/548/EEC) that are classified as carcinogenic, mutagenic and/or toxic for reproduction in categories 1 or 2 are ascribed Note E if they are also classified as very toxic (T+), toxic (T) or harmful (Xn). For these substances, the risk phrases R20, R21, R22,

R23, R24, R25, R26, R27, R28, R39, R68 (harmful), R48 and R65 and all combinations of these risk phrases shall be preceded by the word 'Also'."

Note used on:

determinand: "Arsenic trioxide"

determinand: "Cadmium sulphide"

determinand: "Lead compounds (with the exception of those listed separately in this Annex)"

determinand: "Nickel dihydroxide"

Note L

from section: 1.1.3.1, Annex VI in the document: "[CLP Regulations](#)"

"The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3."

Note used on:

determinand: "Lubricating oils (petroleum), C17-35, solvent-extd., dewaxed, hydrotreated; Baseoil - unspecified"

Version

Classification utilises the following:

CLP Regulations - Regulation (EC) No 1272/2008 of the European Parliament and of the Council: 16 December 2008

1st ATP - 1st Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 26

September 2009; binding date 1 Dec 2010

2nd ATP - 2nd Adaptation to Technical Progress for European Regulation 1272/2008: Date entered into force 30

March 2011; binding date 1 Dec 2012 in respect of substances and 1 June 2015 in respect of mixtures

HazWasteOnline Engine: WM2 version 2.3 (April 2011) using HWR08

HazWasteOnline Engine Version: 1.0.4463.31887 (13 May 2012)

HazWasteOnline Database: 1.0.1949.4627 (09 Mar 2012)

APPENDIX H: QUALITATIVE RISK ASSESSMENT METHODOLOGY

The qualitative risk assessment in this report is undertaken in accordance with CIRIA C552: *Contaminated Land Risk Assessment, A Guide to Good Practice* (Rudland et al., 2001). The CIRIA C552 risk categories are detailed in Appendix D

Potential pollutant linkages are identified using the source-pathway-receptor framework. An assessment of the potential significance of each linkage is then made by consideration of the likely magnitude and mobility of the source, the sensitivity of the receptor and nature of the migration/exposure pathways.

The CIRIA C552 risk categories are given in Table D1, Table D2 and Table D3.

Table D1: Definition of Magnitude of Consequence

Category	Definition
Severe	Acute risks to human health, catastrophic damage to buildings/property, major pollution of controlled waters
Medium	Chronic risks to human health, pollution of sensitive controlled waters, significant effects on sensitive ecosystems or species, significant damage to buildings or structures
Mild	Pollution of non-sensitive waters, minor damage to buildings or structures
Minor	Requirement for protective equipment during site works to mitigate health effects, damage to non-sensitive ecosystems or species

Table D2: Definition of Probability of Exposure

Category	Definition
High Likelihood	Pollutant linkage may be present, and risk is almost certain to occur in the long term, or there is evidence of harm to the receptor
Likely	Pollutant linkage may be present, and it is probable that the risk will occur over the long term
Low Likelihood	Pollutant linkage may be present, and there is a possibility of the risk occurring, although there is no certainty that it will do so
Unlikely	Pollutant linkage may be present, but the circumstances under which harm would occur are improbable

Table D3: Risk Assessment Matrix

		Potential Severity			
		Severe	Medium	Mild	Minor
Probability of Risk	High Likelihood	Very high	High	Moderate	Low/Moderate
	Likely	High	Moderate	Low/Moderate	Low
	Low Likelihood	Moderate	Low/Moderate	Low	Very low
	Unlikely	Low/Moderate	Low	Very low	Very low

A description of these risk classifications and likely action required are given in CIRIA 552 as follows:

Very high risk - High probability that severe harm could arise to a designated receptor from an identified hazard **or** there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in substantial liability. Urgent investigation and remediation are likely to be required.

High risk - Harm is likely to arise to a designated receptor from an identified hazard. This risk, if realised, is likely to result in substantial liability. Urgent investigation is required and remedial works may be necessary in the short term and are likely over the long term.

Moderate risk - It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation is normally required to clarify risks and to determine potential liability. Some remedial works may be required in the long term.

Low risk - It is possible that harm could arise to a designated receptor from an identified hazard but it is likely that this harm, if realised, would at worst normally be mild.

Very low risk - It is a low possibility that harm could arise to a designated receptor. In the event of such harm being realised it is not likely to be severe.

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