

## Hazardous Waste

### Interpretation of the definition and classification of hazardous waste

# CHANGE LOG: Technical Guidance WM2

## Overview of Changes

This document records changes made to Technical Guidance WM2 subsequent to the publication of the 1<sup>st</sup> Edition in 2003. Four revisions have occurred;

- 2<sup>nd</sup> Edition (November 2005) : The implementation of the Hazardous Waste Regulations in England, Wales, and Northern Ireland, and to the Special Waste Regulations in Scotland, required an update to WM2.
- Version 2.1 (August 2006) :The release of the 8<sup>th</sup> Edition of the Approved Supply list required a correction to some chemical references and examples in WM2. Other minor errors identified since November 2005 were also corrected.
- Version 2.2 (February 2008) : This document was produced following a consultation on proposals to align the assessment of H14 Ecotoxic more closely with CHIP. The major change was a replacement of chapter C14.
- Version 2.3 (April 2011) : Major changes were made due to the implementation of the revised Waste Framework Directive, the replacement of the ASL by the CLP, and the expansive 1<sup>st</sup> Adaption To Progress to Table 3.2 of the CLP (European Regulation on the Classification, Labelling and Packaging of Chemicals)

## Summary of Changes to Parts 1-3 (Introduction)

Page	Change (2 <sup>nd</sup> Edition : Nov 2005)
Page 2	• Reference to ACDP removed
Page 6	• Short paragraph on domestic legislation added
Page 9	• Assessment Framework updated
Page 10-11	• Additional information on domestic legislation added • EWC information reduced, referred to Appendix A
Page 12	• ASL information updated- R50-53 and ASL footnotes
Page 16	• Update to reflect amended framework (see page 9)
Page 18	• R20 & 22 order changed.
Page 26	• Table alignment corrected.
All	• Title Page, Footnotes amended to include '2nd edition'

Page	Change (version 2.1 : August 2006)
Page 2	• ASL reference changes to current edition, not 7 <sup>th</sup> .
Page 11	• Text and Footnote reference to ASL 7 <sup>th</sup> edition, changed to most

	recent edition.
Page 12	<ul style="list-style-type: none"> <li>Note on ASL version added</li> <li>Cadmium sulphide risk phrases updated</li> </ul>
Page 25	<ul style="list-style-type: none"> <li>Text on electronic goods aligned with existing Appendix B examples.</li> </ul>
all	<ul style="list-style-type: none"> <li>Footnote amended to v2.1.</li> </ul>
various	<ul style="list-style-type: none"> <li>Spelling, alignment and other typographical corrections</li> </ul>

<b>Page</b>	<b>Change (version 2.2 : February 2008)</b>
Front Pages	<ul style="list-style-type: none"> <li>Updated to version 2.2</li> </ul>
Page 12	<ul style="list-style-type: none"> <li>Bullet on ASL numeric notes updated for revised H14.</li> </ul>
Page 13,14	<ul style="list-style-type: none"> <li>Text on testing updated for revised H14</li> </ul>
Page 16	<ul style="list-style-type: none"> <li>Example, step 6, updated for revised H14</li> </ul>
Page 21	<ul style="list-style-type: none"> <li>Table 3.1 updated for revised H14</li> </ul>
all	<ul style="list-style-type: none"> <li>Footnote amended to v2.2.</li> </ul>
various	<ul style="list-style-type: none"> <li>Spelling, alignment and other typographical corrections</li> <li>Minor changes to ensure consistency with H14</li> </ul>

<b>Page</b>	<b>Change (version 2.3 : April 2011)</b>
Front Pages	<ul style="list-style-type: none"> <li>Updated to version 2.3</li> <li>NIEHS replaced by Northern Ireland Environment Agency</li> <li>Contact details revised</li> <li>Contents page updated</li> <li>List of abbreviations updated</li> </ul>
3	<ul style="list-style-type: none"> <li>Introduction Updated</li> </ul>
5, 6	<ul style="list-style-type: none"> <li>Legislative text revised and replaced</li> </ul>
7	<ul style="list-style-type: none"> <li>New hazardous properties table updated for H13 and H15</li> </ul>
9-29	<ul style="list-style-type: none"> <li>Replaced</li> <li>Framework for assessment revised</li> <li>Directive waste revised</li> <li>References to, and example of, ASL replaced by CLP</li> <li>Table 3.1 revised for H13, and updated.</li> <li>References to the European Chemical Substances Information System (ESIS) and pesticide properties database added with supporting text.</li> </ul>

## Summary of Changes to Appendix A

Page	Change (2 <sup>nd</sup> Edition : Nov 2005)
All	<ul style="list-style-type: none"> <li>Footnotes amended to include '2nd edition'</li> </ul>
A1-2	<ul style="list-style-type: none"> <li>Pages A1 and A2 replaced by updated pages A1-4.</li> <li>Includes brief notes on the structure of the list</li> <li>Minor amendments to instructions for use</li> <li>Table of chapter headings inserted.</li> </ul>
A6 (now A8)	<ul style="list-style-type: none"> <li>05 01 12* changed to an absolute entry for oils</li> <li>Example text altered to reflect absolute status</li> </ul>
A2-A26	<ul style="list-style-type: none"> <li>Page numbers increased by 2.</li> </ul>

Page	Change (version 2.1 : August 2006)
all	<ul style="list-style-type: none"> <li>Footnotes amended to v2.1.</li> </ul>

Page	Change (version 2.2 : February 2008)
all	<ul style="list-style-type: none"> <li>Footnotes amended to v2.2.</li> </ul>

Page	Change (version 2.3 : April 2011)
all	<ul style="list-style-type: none"> <li>Footnotes amended to v2.3.</li> </ul>

## Summary of Changes to Appendix B

Page	Change (2 <sup>nd</sup> Edition : Nov 2005)
All	<ul style="list-style-type: none"> <li>Footnotes amended to include '2nd edition'</li> </ul>
B3	<ul style="list-style-type: none"> <li>01 05 05* changed from an absolute to a mirror entry ( as in Appendix A currently)</li> <li>Example text altered to reflect mirror status</li> </ul>
B9	<ul style="list-style-type: none"> <li>05 01 12* changed to an absolute entry for oils</li> <li>Example text altered to reflect absolute status</li> </ul>
B20	<ul style="list-style-type: none"> <li>Missing word 'substances' inserted for 08 03 17*</li> <li>Ecotoxic(H8) changed to Ecotoxic(H14)</li> </ul>
B37	<ul style="list-style-type: none"> <li>Restructured to remove confusion as page header refers to chapter 13, and examples are chapter 17 and 10.</li> </ul>
B41	<ul style="list-style-type: none"> <li>Minor comment on source of information added.</li> </ul>

B43	<ul style="list-style-type: none"> <li>Text inserted to clarify assessment for mirror entries for electrical goods and hazardous components</li> <li>Subtext entry '16 02 15' corrected to '16 02 16'</li> </ul>
B47	<ul style="list-style-type: none"> <li>Threshold at end of Example B16.3 corrected from 10% to 20%</li> </ul>
B51	<ul style="list-style-type: none"> <li>Contaminated land example replaced by the example from the framework for soils.</li> </ul>
B52	<ul style="list-style-type: none"> <li>Asbestos example amended to remove reference to consignment</li> </ul>
B53	<ul style="list-style-type: none"> <li>'Cytotoxic and Cytostatic' defined.</li> </ul>
B58	<ul style="list-style-type: none"> <li>Risk phrases for nickel corrected, copper removed. Text restructured to reflect changes.</li> </ul>
B59	<ul style="list-style-type: none"> <li>'Cytotoxic and Cytostatic' defined.</li> <li>20 01 35* corrected to remove (6), note on components and assessment added.</li> </ul>

<b>Page</b>	<b>Change (version 2.1 : August 2006)</b>
Page B6	<ul style="list-style-type: none"> <li>Example B2.3, Fenoxycarb risk phrases and threshold concentration amended.</li> </ul>
Page B5	<ul style="list-style-type: none"> <li>Example B5.1, Phenol risk phrases and threshold concentrations amended, text also amended.</li> </ul>
Page B14	<ul style="list-style-type: none"> <li>Example B6.2, Arsenic risk phrases and threshold concentrations amended, text also amended.</li> </ul>
Page B15	<ul style="list-style-type: none"> <li>Example B6.3, Mercury Sulphate risk phrase corrected.</li> </ul>
<b>Page B19</b>	<ul style="list-style-type: none"> <li>Example B7.1, Zinc risk phrase corrected.</li> </ul>
Page B22	<ul style="list-style-type: none"> <li>Example B8.3, Hexane risk phrases corrected</li> <li>Example B8.3, Toluene risk phrases corrected</li> <li>Example B8.3, Lead Chromate risk phrases corrected</li> <li>Example B8.3, Strontium Chromate category of danger corrected.</li> </ul>
Page B38	<ul style="list-style-type: none"> <li>Example B14.1, 1,1,2 trichloroethane risk phrases corrected.</li> <li>Example B14.1, 2-nitrotoluene changed to 4-nitrotoluene to match risk phrases.</li> </ul>
Page B46	<ul style="list-style-type: none"> <li>Example B16.2, Benzene risk phrases corrected.</li> </ul>
Page B47	<ul style="list-style-type: none"> <li>Example B16.3, Nickel oxide risk phrases corrected.</li> </ul>
Page B51	<ul style="list-style-type: none"> <li>Example B17.1, Copper (I) Oxide risk phrases corrected</li> <li>Example B17.1, Zinc Oxide risk phrases added</li> <li>Example B17.1, recalculated.</li> </ul>
Page B58	<ul style="list-style-type: none"> <li>Example B19.2, Lead Hydroxide , R33 added</li> </ul>
all	<ul style="list-style-type: none"> <li>Footnotes amended to v2.1.</li> </ul>
various	<ul style="list-style-type: none"> <li>Spelling, alignment and other typographical corrections</li> </ul>

Page	Change (version 2.2 : February 2008)
Page B1	<ul style="list-style-type: none"> <li>Note on using the current edition of the ASL added</li> </ul>
Page B5	<ul style="list-style-type: none"> <li>Example B2.1 updated for H14 (no substantive change)</li> <li>Example B2.2 updated for H14 (no substantive change)</li> </ul>
Page B6	<ul style="list-style-type: none"> <li>Example B2.3 updated for H14 (no substantive change)</li> </ul>
Page B8	<ul style="list-style-type: none"> <li>Example B4.1 updated for H14 (no substantive change)</li> </ul>
Page B10	<ul style="list-style-type: none"> <li>Example B5.1 updated for H14 (no substantive change)</li> </ul>
Page B14	<ul style="list-style-type: none"> <li>Example B6.2 updated for H14 (no substantive change)</li> </ul>
Page B15	<ul style="list-style-type: none"> <li>Example B6.3 updated for H14 (no substantive change)</li> </ul>
Page B19	<ul style="list-style-type: none"> <li>Example B7.1 updated for H14 (no substantive change)</li> </ul>
Page B21	<ul style="list-style-type: none"> <li>Example B8.1 updated for H14 (no substantive change)</li> </ul>
Page B22	<ul style="list-style-type: none"> <li><b>Example B8.3 revised to align with new chapter C14.</b></li> </ul>
Page B32	<ul style="list-style-type: none"> <li>Example B11.1 updated for H14 (no substantive change)</li> </ul>
Page B35	<ul style="list-style-type: none"> <li><b>Text on PCB's updated</b></li> </ul>
Page B36	<ul style="list-style-type: none"> <li>Example B13.1 updated for H14 (no substantive change)</li> </ul>
Page B41	<ul style="list-style-type: none"> <li><b>Example B15.1 revised to align with the new chapter C14</b></li> </ul>
Page B42	<ul style="list-style-type: none"> <li><b>Example B15.1 revised to align with the new chapter C14</b></li> </ul>
Page B43	<ul style="list-style-type: none"> <li><b>Two sections of text on PCB's updated</b></li> </ul>
Page B47	<ul style="list-style-type: none"> <li>Example B16.3 updated for H14 (no substantive change)</li> <li><b>Example B16.4 revised to align with the new chapter C14</b></li> </ul>
Page B51	<ul style="list-style-type: none"> <li><b>Example B17.1 replaced with revised pages B51-B53</b></li> </ul>
Pages B52 to B60	<ul style="list-style-type: none"> <li>Renumbered B54-62</li> </ul>
Page B52	<ul style="list-style-type: none"> <li>(Renumbered B54)</li> <li><b>Example B17.3 text on PCB's updated</b></li> </ul>
Page B58	<ul style="list-style-type: none"> <li>(Renumbered B60)</li> <li>Example revised to align with new chapter C14</li> </ul>
all	<ul style="list-style-type: none"> <li>Footnotes amended to v2.1.</li> </ul>
various	<ul style="list-style-type: none"> <li>Spelling, alignment and other typographical corrections</li> <li>Minor changes to ensure consistency with H14</li> </ul>

Page	Change (version 2.3: April 2011)
All	<ul style="list-style-type: none"> <li>• All examples deleted due to extent of 1<sup>st</sup> ATP to CLP</li> <li>• Title page amended to reflect this</li> <li>• Footnote amended to v2.3.</li> </ul>

## Summary of Changes to Appendix C

Page	Change (2 <sup>nd</sup> Edition : Nov 2005)
All	<ul style="list-style-type: none"> <li>• Footnotes amended to include '2nd edition'</li> </ul>
C4	<b>H1 : Explosive</b> <ul style="list-style-type: none"> <li>• C1.5- 'controlled waste' replaced by 'directive waste'</li> </ul>
C9	<b>H2: Oxidising</b> <ul style="list-style-type: none"> <li>• Figure C2.1, '&gt;5% available oxygen' replaced by '0.5% available oxygen to match text</li> </ul>
C22	<b>H4/H8 : Irritant and Corrosive</b> <ul style="list-style-type: none"> <li>• C4.1. sentence on mechanical irritants inserted.</li> </ul>
C32 C34	<b>H5/H6 : Harmful and Toxic</b> <ul style="list-style-type: none"> <li>• C5.5. 'R65' added to list of risk phrases</li> <li>• Figure C5.1, 'R38' changed to 'R48'</li> </ul>
C40 C41-44	<b>H7 : Carcinogenic</b> <ul style="list-style-type: none"> <li>• Figure C7.1 R40 threshold changed to 1%</li> <li>• New pages added to incorporate oil thresholds guidance, and amended to clarify mirror entry aspects.</li> <li>• Subsequent page numbering increased by 4</li> </ul>
C43-C50	<b>H9 : Infectious</b> <ul style="list-style-type: none"> <li>• Renumbered C47-C54</li> <li>• Text and Flow Charts updated</li> </ul>
C65	<b>H12 : Produces Toxic Gases in Contact with Water, Air or Acid</b> <ul style="list-style-type: none"> <li>• Renumbered C69</li> <li>• Table text realigned</li> <li>• Reference to SWEN 068 removed</li> <li>• Text from SWEN 068 inserted</li> </ul>

C69 C70	<b>H14 : Ecotoxic</b> <ul style="list-style-type: none"> <li>Note on meaning of 'hyphen' in R50-53 inserted</li> <li>Renumbered C74</li> <li>Reference to C14.4.2 inserted after non-aquatic environment</li> <li>Reference to C14.1 and C14.2 amended (see below)</li> <li>Table C14.1 deleted due to clarify assessment</li> <li>Further explanatory text for C14.2 inserted</li> <li>Table C14.2 renumbered C14.1 (see above)</li> </ul>
C75 C76	
C77	

Page	Change (version 2.1 : August 2006)
various	<ul style="list-style-type: none"> <li>Directive Test Method references corrected to 92/69/EC</li> </ul>
C14	<ul style="list-style-type: none"> <li>H3 Flow chart corrected</li> </ul>
C17	<ul style="list-style-type: none"> <li>Table 3.1, Zinc powder/zinc dust deleted</li> </ul>
C25	<ul style="list-style-type: none"> <li>H4 and H8 flow chart corrected</li> </ul>
C41-43	<b>H7 : Carcinogenic</b> <ul style="list-style-type: none"> <li>Oil related assessment text deleted. Separate guidance on waste oils and oily wastes is under preparation.</li> </ul>
all	<ul style="list-style-type: none"> <li>Footnotes amended to v2.1.</li> </ul>
various	<ul style="list-style-type: none"> <li>Spelling, alignment and other typographical corrections</li> </ul>

Page	Change (version 2.2 : February 2008)
C14 (chapter)	<ul style="list-style-type: none"> <li><b>Chapter replaced</b></li> </ul>
all	<ul style="list-style-type: none"> <li>Footnotes amended to v2.2.</li> </ul>
various	<ul style="list-style-type: none"> <li>Spelling, alignment and other typographical corrections</li> </ul>

Page	Change (version 2.3 : April 2011)
Chapter C13 (existing)	<ul style="list-style-type: none"> <li><b>C13 Chapter relocated and updated to H15</b></li> <li><b>New revised Waste Framework Definition added</b></li> <li><b>H14 included in scope</b></li> </ul>
Chapter C13 (new)	<ul style="list-style-type: none"> <li><b>C13 Sensitizing chapter added (new)</b></li> </ul>
all	<ul style="list-style-type: none"> <li>Footnotes amended to v2.3.</li> </ul>
all	<ul style="list-style-type: none"> <li>References to the ASL replaced with CLP</li> <li>References to Hazardous Waste Directive updated to revised Waste Framework Directive or EWC</li> </ul>

	<ul style="list-style-type: none"> <li>• Reference to EWC 2002 revised to EWC</li> <li>• References to H13 changed to H15</li> <li>• Category of Danger table revised</li> </ul>
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## Summary of Changes to Appendix D

Page	Change (2 <sup>nd</sup> Edition : Nov 2005)
All	<ul style="list-style-type: none"> <li>• Footnotes amended to include '2nd edition'</li> </ul>

Page	Change (version 2.1 : August 2006)
all	<ul style="list-style-type: none"> <li>• Footnote amended to v2.1.</li> </ul>

Page	Change (version 2.2 : February 2008)
all	<ul style="list-style-type: none"> <li>• Footnote amended to v2.2.</li> </ul>

Page	Change (version 2.3: April 2011)
all	<ul style="list-style-type: none"> <li>• Footnote amended to v2.2.</li> </ul>
1, 2	<ul style="list-style-type: none"> <li>• Change references to ASL to Table 3.2 of the CLP</li> </ul>

## Summary of Changes to Glossary and Index

Page	Change (2 <sup>nd</sup> Edition : Nov 2005)
All	<ul style="list-style-type: none"> <li>• Changes above reflected.</li> </ul>
	<ul style="list-style-type: none"> <li>• Footnotes amended to include '2<sup>nd</sup> edition'</li> </ul>

Page	Change (version 2.1 : August 2006)
all	<ul style="list-style-type: none"> <li>• Changes to Chapter C page numbers made</li> </ul>
all	<ul style="list-style-type: none"> <li>• Footnote amended to v2.1.</li> </ul>

Page	Change (version 2.2 : February 2008)
all	<ul style="list-style-type: none"> <li>• Changes to Chapter B page numbers made</li> </ul>
all	<ul style="list-style-type: none"> <li>• Footnote amended to v2.2.</li> </ul>

Page	Change (version 2.3 : April 2011)
all	<ul style="list-style-type: none"> <li>• Footnote amended to v2.3</li> </ul>
1	<ul style="list-style-type: none"> <li>• Agencies updated to Northern Ireland Environment Agency</li> </ul>
1	<ul style="list-style-type: none"> <li>• ACLG updated to 6<sup>th</sup> Edition</li> </ul>

1	<ul style="list-style-type: none"><li>• Directive waste amended to 2008/98/EC</li></ul>
3	<ul style="list-style-type: none"><li>• Mirror entries amended to reflect specific references to dangerous substances</li></ul>
Index	<ul style="list-style-type: none"><li>• Deleted pending further revision.</li></ul>