



Victoria Government Gazette

No. S 163 Friday 6 July 2007
By Authority, Victorian Government Printer

Environment Protection Act 1970 ACT NO. 8056/1970

INDUSTRIAL WASTE MANAGEMENT POLICY (PRESCRIBED INDUSTRIAL WASTE) Prescribed Industrial Waste – Classification by Hazard

Pursuant to clause 11(1) of the Industrial waste management policy (Prescribed Industrial Waste) and in accordance with the criteria presented in Schedule 1 of that policy, the Environment Protection Authority Victoria (EPA) hereby classifies the prescribed industrial wastes specified in Section 3 below based on the hazard posed by the waste to human health and the environment.

1. CLASSIFICATION NUMBER

2007/007

2. OCCUPIER AND PREMISES TO WHICH THIS CLASSIFICATION APPLIES

- Australian Refined Alloys Pty Ltd (“the occupier”)
- Premises address: 19 Little Boundary Rd, Laverton North, Victoria (“the premises”)
- EPA licence number: EA5390

3. PRESCRIBED INDUSTRIAL WASTE TO WHICH THIS CLASSIFICATION APPLIES

3.1 This classification applies to the following prescribed industrial wastes generated at the premises.

- Lead rotary furnace slag (“slag”) generated as specified in section 4 of the Australian Refined Alloys Pty Ltd Application for Prescribed Industrial Waste Classification for ARA Slag, submitted to EPA on 12 June 2007 (“the Application”):
 - a) containing lead with a leachable concentration not exceeding the ASLP2 threshold specified in Appendix 3 of EPA Publication 996, Guidelines for Hazard Classification of Solid Prescribed Industrial Wastes, 2005 (as amended from time to time) (“EPA Publication 996”); and
 - b) containing selenium with a leachable concentration not exceeding the ASLP2 threshold specified in Appendix 3 of EPA Publication 996; and
 - c) containing arsenic with:
 - 95% Upper Confidence Limit (“UCL”) leachable concentration values for the period of this classification (as specified in Section 4) not exceeding the 95% UCL values specified in Appendix 1 of the Application; and
 - a total concentration not exceeding the TC2 threshold specified in Appendix 3 of EPA Publication 996; and
 - d) containing antimony with 95% UCL total and leachable concentration values for the period of this classification (as specified in Section 4) not exceeding the 95% UCL values specified in Appendix 1 of the Application; and
 - e) containing any other contaminants where contaminant concentrations and leachable concentrations do not exceed any TC2 or ASLP2 thresholds specified in Appendix 3 of EPA Publication 996; and
 - f) that does not display any of the specific hazard characteristics listed in Appendix 2 of EPA Publication 996.

SPECIAL

4. PERIOD OF VALIDITY

This classification commences on 6 July 2007 and is effective until 1 December 2007 unless it is revoked or varied by the EPA before that date.

5. HAZARD CLASSIFICATION

Slag (as specified in section 3.1 above) that has been managed in accordance with the conditions of this classification (as set out in Section 6 below) is classified as Category B prescribed industrial waste.

6. CONDITIONS OF CLASSIFICATION

The slag referred to above is only classified as Category B waste if all of the following conditions have been met:

Waste assessment, treatment and disposal requirements

- 6.1 Slag may be disposed to a facility licensed by EPA to accept Category B prescribed industrial wastes.

Sampling and analysis

- 6.2 The occupier must carry out waste sampling and analysis as set out in Schedule 1 to this classification.
- 6.3 The sampling of slag must be carried out in accordance with EPA Publication 441, A guide to the Sampling and Analysis of Waters, Wastewater, Soils and Waste, 2000 (as amended from time to time).
- 6.4 The analysis of slag to determine the hazard category must be carried out in accordance with EPA Publication 996.

Monitoring and reporting

- 6.5 The occupier must carry out monitoring in accordance with Schedule 1.
- 6.6 The occupier must report to EPA, Waste Management Unit, the following:
- a) for each calendar month by the end of the following month, quantities of slag disposed to landfill; and
 - b) information as required in Schedule 2.

Notification and record keeping

- 6.7 The occupier must keep a copy of all analysis results for slag for a period of at least five years.
- 6.8 The occupier must immediately notify EPA in writing of any slag that does not meet the requirements of this classification.

7. NOTE

This classification may be amended or revoked by the EPA by way of written notice in the Victoria Government Gazette. Current classifications can also be found on EPA's website at www.epa.vic.gov.au

Schedule 1: Sampling and analysis requirements

| | Period | Sampling requirements | Frequency | Analytical requirements |
|---|----------------------|--|--|---|
| 1 | 1 Jul 07 to 1 Nov 07 | One grab sample of slag taken from each furnace charge each day and combined into a weekly composite sample. | Weekly | Analysis of total contaminant concentrations for all the inorganic species listed in Appendix 3 of Publication 996, excluding asbestos, boron, chromium (IV), silver and tributyltin oxide. Analysis of leachable concentrations for inorganic species with total contaminant concentrations greater than 20 times the ASLP1 threshold in Appendix 3 of Publication 996. |
| | | | Once during Sept 07 | Analysis of total contaminant concentrations for all the inorganic species listed in Appendix 3 of Publication 996, excluding asbestos. Analysis of leachable concentrations for inorganic species with total contaminant concentrations greater than 20 times the ASLP1 threshold in Appendix 3 of Publication 996. |
| 2 | During July 07 | One grab sample of slag taken from each furnace charge in the day and combined into a daily composite sample. | For 15 days in the month of July 07 | As above. |
| 3 | During July 07 | Use any of the daily composite samples required in row 2 above. | Minimum of one sample taken during July 2007 | Use laboratory analysis to determine the chemical form of arsenic and antimony present in the waste. Use laboratory analysis to determine the chemical speciation of antimony and arsenic. |
| 4 | Aug 07 | Select the sample(s) required in row 2 above with the highest leachable contaminant concentrations for arsenic and antimony. Select the sample(s) required in row 2 above with typical leachable contaminant concentrations for arsenic and antimony. | On one occasion in Aug 2007 | For each sample carry out a Multiple Extraction Procedure using synthetic acid rain and borate buffer solutions, for arsenic, antimony, lead and selenium, as set out in Section 6.3 of the Application. |

Schedule 2: Reporting requirements

| | Report Due Date | Report requirements |
|---|--|---|
| A | Action plan to be submitted to EPA by 30 July 07. | Provide an action plan to EPA that includes: <ul style="list-style-type: none"> actions and a timeline for reducing antimony and arsenic leachable concentrations to meet ASLP2 thresholds as listed in EPA Publication 996 by 1 December 2007 (including but not limited to process conditions, process control procedures, a mass balance for arsenic and antimony). |
| B | Report to be submitted to EPA for each calendar month by the end of the following month. | Provide a report to EPA that includes: <ul style="list-style-type: none"> analytical results for each sample as required in Row 1 of the table in Schedule 1; and a summary of analytical results. |
| C | Report to be submitted to EPA by 30 August 07. | Provide a report to EPA that includes: <ul style="list-style-type: none"> analytical results required in row 2 of the table in Schedule 1 above for the month of July; details of the industrial process conditions and process inputs during the 15 day period; and explanations for the analytical results having regard to the industrial process conditions and inputs. |
| D | Report to be submitted to EPA by 30 September 07. | Provide a report to EPA that includes information available to date for the following: <ul style="list-style-type: none"> analytical results required in row 3 of the table in Schedule 1 above; an interpretation and conclusion on the chemical form and speciation of arsenic and antimony; and options for reducing arsenic and antimony in the slag waste including avoidance, reuse, recycling or treatment options such as immobilisation technologies. |
| E | Report to be submitted to EPA by 30 October 07. | Provide a report to EPA that includes: <ul style="list-style-type: none"> laboratory analysis and interpretation of results for each sample as required in Row 4 of the table in Schedule 1 above. |

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