CWM Technical Guideline

Requirements and Procedures for the Disposal of Hazardous Wastes

CWM.TG/1

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## Requirements and Procedures for the Disposal of Hazardous Wastes

### Version & Change History

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<tr>
<th>Date</th>
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## Abbreviations

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<tr>
<td>COP</td>
<td>Code of Practice</td>
</tr>
<tr>
<td>CWM</td>
<td>The Center of Waste Management-Abu Dhabi</td>
</tr>
<tr>
<td>EAD</td>
<td>Environment Agency–Abu Dhabi</td>
</tr>
<tr>
<td>ESMA</td>
<td>Emirates Authority for Standardization &amp; Metrology</td>
</tr>
<tr>
<td>MSDS</td>
<td>Material Safety Data Sheet</td>
</tr>
<tr>
<td>NOC</td>
<td>No Objection Certificate</td>
</tr>
<tr>
<td>RSP</td>
<td>Registered Service Providers</td>
</tr>
<tr>
<td>WG</td>
<td>Waste Generator</td>
</tr>
<tr>
<td>WMDS</td>
<td>Waste Material Data Sheet</td>
</tr>
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</table>
1. Introduction

This technical guideline provides requirements and procedures for disposal of Hazardous wastes. It identifies International standards / guidelines applicable for the disposal of hazardous waste.

Hazardous wastes, due to inherent hazardous characteristics, can cause substantial harm to human, properties or to the environment, particularly during handling, storage, transportation, treatment, and, imminently, at disposal sites. Improper storage or disposal of hazardous wastes also would contaminate surface and groundwater supplies. In addition, workers at disposal facilities and those people who are staying at buildings located near old and abandoned waste disposal sites are the most likely at risk due to obnoxious gases that expectedly arise from the deposited wastes.

In an effort to remedy existing problems and to prevent potential harm due to improper handling of hazardous wastes, the Center of Waste Management-Abu Dhabi regulates the practice of hazardous waste disposal.

This technical guideline also provides requirements for annual approval of hazardous waste disposal. The annual approval of hazardous waste will be based on a case-by-case. The purpose of annual approval is to reduce heavy administrative burden on both the Waste Generator and CWM.

2. Requirements

2.1 Legal Requirements

Listed below are the main legislative requirements related to the hazardous waste within the Abu Dhabi Emirate. All the requirements listed within these documents shall be
adhered to, however compliance with this document and those referenced within, shall ensure compliance with the requirements stated within the legal standards listed below:

1. Federal Cabinet Resolution No. (39) of 2006 on Banning the Import and Production of Asbestos;
2. Federal Law No (24) for the year 1999 on the Protection and the Development of the Environment;
3. Federal Law No. (28) of 2001 Regarding the Establishment of the emirates authority for standards and Meteorology;
5. Law No (21) for the year 2005 on Waste Management in the Emirate of Abu Dhabi;
7. Centre of Waste Management Board of Directors Decree No 1/2010 for Waste Tracking System;
8. Decree No 17 of 2008 Establishing the Centre of Waste Management – Abu Dhabi;
10. The Trade Effluent Control Regulations, 2010; and
13. Health Authority Abu Dhabi Policy for Medical Waste Management in Health Care Facilities (PPR/HCP/P0002/07; Ver.1).
2.2 Permits and Licensing

Listed are the specific licensing and permitting requirements relevant to this technical guideline. The Waste Generator is required to ensure that all licensing and permitting requirements have been complied prior to commence any work.

a) Hazardous waste carriers / transporter:
   (i) To be approved by CWM-AD.

b) Hazardous waste Facilities:
   (i) To be approved by CWM-AD.

c) Testing Facilities:
   (i) All testing facility shall be approved for the purpose (Scope of accreditation) by Emirates Standardization and Metrology (ESMA) Authority.

This technical Guideline explains the procedures and requirements of submission of request or application for disposal of hazardous waste in the Emirate of Abu Dhabi through the following CWM/NADAFA Customer Service offices:

<table>
<thead>
<tr>
<th>Location Name</th>
<th>City</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Licensing Department (NADAFA) of the Center of Waste Management-Abu Dhabi</td>
<td>Abu Dhabi</td>
<td>Street No. 13, Al Nhayan Complex, behind Red Crescent-Branch.</td>
</tr>
<tr>
<td>The Center of Waste Management-Abu Dhabi, Al Ain Office</td>
<td>Al Ain</td>
<td></td>
</tr>
<tr>
<td>Tem Centre Madinat Zayed Western Region</td>
<td>Western Region</td>
<td></td>
</tr>
</tbody>
</table>

Table 1: Customer Service Offices

1. All Waste Generators (WGs) for the disposals of hazardous waste are required to contract with CWM Registered Service Providers (RSP) permitted under hazardous waste category.
2. Waste Generator shall be responsible for their waste from origin to final disposal ("cradle to grave").
3. Waste Generator shall submit application (Annexure 6) through Registered Service Providers (Annexure 7) along with all legal, administrative and technical documents (Annexure 9) for document checklist to be filled by Waste Generator to the Center of Waste management-Abu Dhabi through at any of the above mentioned offices in table 1.

4. Waste Generator must ensure not to store any hazardous waste container near ADSSC Sewerage Water Network, Strom Water Network, Marine Environment, Marine Outfalls or Channel.

5. Waste Generator shall submit the following technical documents along with the legal and administrative documents & application:
   a. Waste Material Data Sheet (Annexure 3)
   b. MSDS, if available
   c. Analysis Report from any ESMA accredited laboratories in the Emirate of Abu Dhabi for the following wastes and the required parameters as a minimum:
      i. For Sludge & contaminated soil – pH, Solids (fixed/volatiles/total) Moisture content, Oil content (% by weight), chloride and Heavy Metals (As, Cd, Cr, Cu, Pb, Hg, Mo, Ni, Se and Zn). For contaminated soils, Total Petroleum Hydrocarbons and BTEX (benzene, toluene, ethyl benzene, and xylenes) shall also be analysed if the contamination is due to fuel spills etc.
      ii. For Used Oil – Free Oil (%), Water Content (%), Sediment (%), Sulphur (%), Total Metals (ppm)
      iii. For Used Chemicals, inks, paints, solvents, etc. – pH, volatiles, hydrocarbon, water content (%), Flashpoint (ºC), Heavy Metals etc.
      iv. Medical Waste Treatment - Bacillus stearothermophilus test & Bacillus subtilis test
(All above listed parameters shall be analysed for interim purpose only and later on all listed parameters or other applicable herein shall comply with other relevant Local and International Regulations Standards)

6. The laboratory analysis report shall not be more than 1 month old reckoned from the date when the sample was collected for analysis. New analysis report is required for every batch permit application. The CWM may require other tests to further determine the hazard nature of waste.


8. Disposal fee for every approved hazardous waste disposal application shall be considered as specified in Annexure 2.

9. Upon payment of disposal fee, the Waste Generator must obtain the hazardous waste manifest as specified in process flow (Annexure 4).

10. All permitted waste shall be disposed off only into the designated site within 30 days reckoned from the date of approval or as per the schedule set by the disposal facility.

11. The Manifest shall be signed by the generator, the transporter and the operator of the Waste Management facility in order to track the waste consignment and ensure consistency of information.

12. It is mandatory to provide a copy of manifest to the Waste Generator, Waste Transporter and Operator of Waste Management facility.

13. The importation of waste from other Emirates into the Emirate of Abu Dhabi for reuse, reprocessing, recycling or disposal is prohibited unless the Center of Waste Management-Abu Dhabi issues a NOC / Approval in advance.

14. Any waste, damaged goods or deteriorated material arriving in Abu Dhabi ports shall be considered imported waste and will not be accepted for disposal. Such waste material must be sent back to its place of origin. A proof of shipment or re-exportation of such waste out of Abu Dhabi shall be submitted to the CWM.
15. The exportation of hazardous waste from Abu Dhabi to another Emirate shall not be permitted where such waste will be treated or disposed of to a lesser environmental standard than that which is readily available in Abu Dhabi.

16. The export of hazardous waste from UAE to another country is prohibited as per Basel Convention Protocol.

17. Any intention of exporting hazardous waste shall comply with the requirements of the Environment Agency and in accordance with the Basel Convention protocol on the Control of Trans-boundary Movement of Hazardous Wastes and their Disposal.

18. CWM defines hazardous wastes in accordance with the Basel Convention as described in Annexure 1 of this procedure.

19. The licensing and permitting approval for the hazardous waste disposal / treatment will be based on the documentary evidence which will be provided by the Waste Generator and Registered Service Providers.

Annual Approval

Waste Generator must comply with below mentioned requirement in order to obtain annual approval for the disposal / treatment of hazardous waste:

**Only waste generators meeting the following criteria will be considered for an annual disposal approval:**

a. The waste should be generated at a regular rate.

b. The type of waste is well characterized by the Waste Generator & WG shall undertake regular waste testing (minimum monthly) and ensure that the composition is within the ± 5% variation, if it exceeds the range the Waste Generator shall be responsible to obtain fresh permit for disposal.
c. The waste Generator shall submit monthly record – RSP Register (Annexure 11) along with waste test reports and copies of all waste manifests for the month, within 5 working days of the following month.

Applications containing the following information must be made by the generator in writing to The Center of Waste Management Center-Abu Dhabi:

a. Copies of all approved disposal applications for the waste over the preceding 12 months including waste analysis.

b. The source and a description of the means by which the waste is generated.

c. Any data on the expected range of hazardous component concentrations in the waste.

d. The amount of waste expected each year.

If approved, an annual hazardous waste disposal approval may specify:

e. The maximum amount of waste permitted for disposal in one calendar year.

f. Limits on the concentrations of any components or any characteristics of the waste.

g. A waste testing program for the regular analysis of the waste.

h. An annual waste auditing and reporting program.

i. Any pretreatment requirements.

j. Approved transporters and vehicle specifications.

k. Require the Waste Generator to maintain records as specified by CWM.

l. Require the Waste Generator to submit an annual report on waste volumes disposed of that year.

m. Disposal or storage facility.
The Waste Generator must ensure:

a. Only dispose of wastes in accordance with the annual approval requirements and should not place or discharge the wastes at a site other than that specified in the annual approval.
b. Complete and lodge at the disposal site when waste is disposed, 2 copies of the attached “Waste Generation Consignment Note” (attached as Annex 10). Waste generator must submit the application with Waste Generation Consignment Note with the fee specified in Annexure 2.
c. Provide one copy of the “Waste Generation Certification Note” directly to the Center of Waste Management Center-Abu Dhabi when the waste is handed over for transport to Registered Service Providers. (See process in Annex10).

The holder of an annual disposal approval must permit samples of the waste to be collected and retained at the disposal site.

Landfill Environmental Issues:

The following factors need to be considered:

- Vermin, noise, odor etc.
- Risk of Land contamination (TCLP test to be conducted)
- Risk of ground water contamination (TCLP test to be conducted)
- Landfill gas is explosive and it is a greenhouse gas
Annexures

Annexure 1: Basel Convention Protocol Annexures
Annexure 2: Fee Structure
Annexure 3: Waste Material Data Sheet Format
Annexure 4: Process flow for the disposal/treatment of hazardous waste
Annexure 5: Hazardous waste manifest format
Annexure 6: Application form
Annexure 7: List of Registered Service Providers
Annexure 8: Document Checklist
Annexure 9: Hazardous Waste Annual Approval Process
Annexure 10: Waste Consignment Note
Annexure 11: RSP Register
References

1. Federal Cabinet Resolution No. (39) of 2006 on Banning the Import and Production of Asbestos;
2. Federal Law No (24) for the year 1999 on the Protection and the Development of the Environment;
3. Federal Law No. (28) of 2001 Regarding the Establishment of the emirates authority for standards and Meteorology;
5. Law No (21) for the year 2005 on Waste Management in the Emirate of Abu Dhabi;
7. Centre of Waste Management Board of Directors Decree No 1/2010 for Waste Tracking System;
8. Decree No 17 of 2008 Establishing the Centre of Waste Management – Abu Dhabi;
10. The Trade Effluent Control Regulations, 2010; and
11. Basel Convention Protocol for Liability and Compensation on the Control of Transboundary Movement of Hazardous Wastes and their Disposal (Texts and Annexes);
Annex 1: Basel Convention Protocol Annexures

Hazardous Waste

(a) Wastes that belong to any category contained in Annex I, unless they do not possess any of the characteristics contained in Annex III; and

(b) Wastes that are not covered under paragraph 1 (a) but are defined as, or are considered to be, hazardous wastes by the domestic legislation of the Party of export, import or transit.

Annex I: Categories of wastes to be controlled

Waste Stream

Y1 Clinical wastes from medical care in hospitals, medical centers and clinics

Y2 Wastes from the production and preparation of pharmaceutical products

Y3 Waste pharmaceuticals, drugs and medicines

Y4 Wastes from the production, formulation and use of biocides and phytopharmaceuticals

Y5 Wastes from the manufacture, formulation and use of wood preserving chemicals

Y6 Wastes from the production, formulation and use of organic solvents

Y7 Wastes from heat treatment and tempering operations containing cyanides

Y8 Waste mineral oils unfit for their originally intended use

Y9 Waste oils/water, hydrocarbons/water mixtures, emulsions
Y10 Waste substances and articles containing or contaminated with polychlorinated biphenyls (PCBs) and/or polychlorinated terphenyls (PCTs) and/or polybrominated biphenyls (PBBs)

Y11 Waste tarry residues arising from refining, distillation and any pyrolytic treatment

Y12 Wastes from production, formulation and use of inks, dyes, pigments, paints, lacquers, varnish

Y13 Wastes from production, formulation and use of resins, latex, plasticizers, glues/adhesives

Y14 Waste chemical substances arising from research and development or teaching activities which are not identified and/or are new and whose effects on man and/or the environment are not known

Y15 Wastes of an explosive nature not subject to other legislation

Y16 Wastes from production, formulation and use of photographic chemicals and processing materials

Y17 Wastes resulting from surface treatment of metals and plastics

Y18 Residues arising from industrial waste disposal operations

Waste having as constituents

Y19 Metal carbonyls

Y20 Beryllium; beryllium compounds

Y21 Hexavalent chromium compounds
Y22 Copper compounds

Y23 Zinc compounds

Y24 Arsenic; arsenic compounds

Y25 Selenium; selenium compounds

Y26 Cadmium; cadmium compounds

Y27 Antimony; antimony compounds

Y28 Tellurium; tellurium compounds

Y29 Mercury; mercury compounds

Y30 Thallium; thallium compounds

Y31 Lead; lead compounds

Y32 Inorganic fluorine compounds excluding calcium fluoride

Y33 Inorganic cyanides

Y34 Acidic solutions or acids in solid form

Y35 Basic solutions or bases in solid form

Y36 Asbestos (dust and fibres)

Y37 Organic phosphorus compounds

Y38 Organic cyanides

Y39 Phenols; phenol compounds including chlorophenols
Y40 Ethers

Y41 Halogenated organic solvents

Y42 Organic solvents excluding halogenated solvents

Y43 Any congenor of polychlorinated dibenzo-furan

Y44 Any congenor of polychlorinated dibenzo-p-dioxin

Y45 Organohalogen compounds other than substances referred to in this Annex (e.g. Y39, Y41, Y42, Y43, Y44)

Annex II: Categories of Wastes Requiring Special Consideration

Y46 Wastes collected from households

Y47 Residues arising from the incineration of household wastes

Annex III: List of Hazardous Characteristics

<table>
<thead>
<tr>
<th>UN Class</th>
<th>Code</th>
<th>Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>H1</td>
<td>Explosive</td>
</tr>
</tbody>
</table>

An explosive substance or waste is a solid or liquid
Requirements and Procedures for the Disposal of Hazardous Wastes

substance or waste (or mixture of substances or wastes) which is in itself capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings.

3 H3 Flammable liquids

The word “flammable” has the same meaning as “inflammable”. Flammable liquids are liquids, or mixtures of liquids, or liquids containing solids in solution or suspension (for example, paints, varnishes, lacquers, etc., but not including substances or wastes otherwise classified on account of their dangerous characteristics) which give off a flammable vapour at temperatures of not more than 60.5°C, closed-cup test, or not more than 65.6°C, open-cup test. (Since the results of open-cup tests and of closed-cup tests are not strictly comparable and even individual results by the same test are often variable, regulations varying from the above figures to make allowance for such differences would be within the spirit of this definition.)

4.1 H4.1 Flammable solids

Solids, or waste solids, other than those classed as explosives, which under conditions encountered in transport are readily combustible, or may cause or contribute to fire through friction.
4.2 H4.2 Substances or wastes liable to spontaneous combustion
Substances or wastes which are liable to spontaneous heating under normal conditions encountered in transport, or to heating up on contact with air, and being then liable to catch fire.

4.3 H4.3 Substances or wastes which, in contact with water emit flammable gases
Substances or wastes which, by interaction with water, are liable to become spontaneously flammable or to give off flammable gases in dangerous quantities.

5.1 H5.1 Oxidizing
Substances or wastes which, while in themselves not necessarily combustible, may, generally by yielding oxygen cause, or contribute to, the combustion of other materials.

5.2 H5.2 Organic Peroxides
Organic substances or wastes which contain the bivalent-o-o-structure are thermally unstable substances which may undergo exothermic self-accelerating decomposition.

6.1 H6.1 Poisonous (Acute)
Substances or wastes liable either to cause death or serious injury or to harm human health if swallowed or
Requirements and Procedures for the Disposal of Hazardous Wastes

6.2 H6.2 Infectious substances

Substances or wastes containing viable micro organisms or their toxins which are known or suspected to cause disease in animals or humans.

8 H8 Corrosives

Substances or wastes which, by chemical action, will cause severe damage when in contact with living tissue, or, in the case of leakage, will materially damage, or even destroy, other goods or the means of transport; they may also cause other hazards.

9 H10 Liberation of toxic gases in contact with air or water

Substances or wastes which, by interaction with air or water, are liable to give off toxic gases in dangerous quantities.

9 H11 Toxic (Delayed or chronic)

Substances or wastes which, if they are inhaled or ingested or if they penetrate the skin, may involve delayed or chronic effects, including carcinogenicity.

9 H12 Ecotoxic

Substances or wastes which if released present or may
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Present immediate or delayed adverse impacts to the environment by means of bioaccumulation and/or toxic effects upon biotic systems.

9 H13 Capable, by any means, after disposal, of yielding another material, e.g., leachate, which possesses any of the characteristics listed above.

Annex VIII

Wastes contained in this Annex are characterized as hazardous under Article 1, paragraph 1 (a), of this Convention, and their designation on this Annex does not preclude the use of Annex III to demonstrate that a waste is not hazardous.

A1 METAL AND METAL-BEARING WASTES

A 1010 Metal wastes and waste consisting of alloys of any of the following: • Antimony • Arsenic • Beryllium • Cadmium • Lead • Mercury • Selenium • Tellurium • Thallium but excluding such wastes specifically listed on list B.

A 1020 Waste having as constituents or contaminants, excluding metal waste in massive form, any of the following: • Antimony; antimony compounds • Beryllium; beryllium compounds • Cadmium; cadmium compounds • Lead; lead compounds • Selenium; selenium compounds • Tellurium; tellurium compounds
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A 1030</td>
<td>Wastes having as constituents or contaminants any of the following: • Arsenic; arsenic compounds • Mercury; mercury compounds • Thallium; thallium compounds</td>
</tr>
<tr>
<td>A 1040</td>
<td>Wastes having as constituents any of the following: • Metal carbonyls • Hexavalent chromium compounds</td>
</tr>
<tr>
<td>A 1050</td>
<td>Galvanic sludges</td>
</tr>
<tr>
<td>A 1060</td>
<td>Waste liquors from the pickling of metals</td>
</tr>
<tr>
<td>A 1070</td>
<td>Leaching residues from zinc processing, dust and sludges such as jarosite, hematite, etc.</td>
</tr>
<tr>
<td>A 1080</td>
<td>Waste zinc residues not included on list B, containing lead and cadmium in concentrations sufficient to exhibit Annex III characteristics</td>
</tr>
<tr>
<td>A 1090</td>
<td>Ashes from the incineration of insulated copper wire</td>
</tr>
<tr>
<td>A 1100</td>
<td>Dusts and residues from gas cleaning systems of copper smelters</td>
</tr>
<tr>
<td>A 1110</td>
<td>Spent electrolytic solutions from copper electorefining and electrowinning operations</td>
</tr>
<tr>
<td>A 1120</td>
<td>Waste sludges, excluding anode slimes, from electrolyte purification systems in copper electorefining and electrowinning operations</td>
</tr>
<tr>
<td>A 1130</td>
<td>Spent etching solutions containing dissolved copper</td>
</tr>
</tbody>
</table>
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A 1140 Waste cupric chloride and copper cyanide catalysts

A 1150 Precious metal ash from incineration of printed circuit boards not included on list B

A 1160 Waste lead-acid batteries, whole or crushed

A 1170 Unsorted waste batteries excluding mixtures of only list B batteries. Waste batteries not specified on list B containing Annex I constituents to an extent to render them hazardous.

A 1180 Waste electrical and electronic assemblies or scrap containing components such as accumulators and other batteries included on list A, mercury-switches, glass from cathode-ray tubes and other activated glass and PCB-capacitors, or contaminated with Annex I constituents (e.g., cadmium, mercury, lead, polychlorinated biphenyl) to an extent that they possess any of the characteristics contained in Annex III (note the related entry on list B B1110)

A 1190 Waste metal cables coated or insulated with plastics containing or contaminated with coal tar, PCB11, lead, cadmium, other organohalogen compounds or other Annex I constituents to an extent that they exhibit Annex III characteristics.
A2 WASTES CONTAINING PRINCIPALLY INORGANIC CONSTITUENTS, WHICH MAY CONTAIN METALS AND ORGANIC MATERIALS

A 2010  Glass waste from cathode-ray tubes and other activated glasses

A 2020  Waste inorganic fluorine compounds in the form of liquids or sludges but excluding such wastes specified on list B

A 2030  Waste catalysts but excluding such wastes specified on list B

A 2040  Waste gypsum arising from chemical industry processes, when containing Annex I constituents to the extent that it exhibits an Annex III hazardous characteristic (note the related entry on list B B2080)

A 2050  Waste asbestos (dusts and fibres)

A 2060  Coal-fired power plant fly-ash containing Annex I substances in concentrations sufficient to exhibit Annex III characteristics (note the related entry on list B B2050)

A3 WASTES CONTAINING PRINCIPALLY ORGANIC CONSTITUENTS, WHICH MAY CONTAIN METALS AND INORGANIC MATERIALS

A 3010  Waste from the production or processing of petroleum coke and
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- bitumen
  - A 3020 Waste mineral oils unfit for their originally intended use
  - A 3030 Wastes that contain, consist of or are contaminated with leaded anti-knock compound sludges
  - A 3040 Waste thermal (heat transfer) fluids
  - A 3050 Wastes from production, formulation and use of resins, latex, plasticizers, glues/adhesives excluding such wastes specified on list B (note the related entry on list B B4020)
  - A 3060 Waste nitrocellulose
  - A 3070 Waste phenols, phenol compounds including chlorophenol in the form of liquids or sludges
  - A 3080 Waste ethers not including those specified on list B
  - A 3090 Waste leather dust, ash, sludges and flours when containing hexavalent chromium compounds or biocides (note the related entry on list B B3100)
  - A 3100 Waste paring and other waste of leather or of composition leather not suitable for the manufacture of leather articles containing hexavalent chromium compounds or biocides (note the related entry on list B B3090)
  - A 3110 Fellmongery wastes containing hexavalent chromium compounds or biocides or infectious substances (note the
related entry on list B B3110)

A 3120 Fluff - light fraction from shredding

A 3130 Waste organic phosphorous compounds

A 3140 Waste non-halogenated organic solvents but excluding such wastes specified on list B

A 3150 Waste halogenated organic solvents

A 3160 Waste halogenated or unhalogenated non-aqueous distillation residues arising from organic solvent recovery operations

A 3170 Wastes arising from the production of aliphatic halogenated hydrocarbons (such as chloromethane, dichloro-ethane, vinyl chloride, vinylidene chloride, allyl chloride and epichlorhydrin)

A 3180 Wastes, substances and articles containing, consisting of or contaminated with polychlorinated biphenyl (PCB), polychlorinated terphenyl (PCT), polychlorinated naphthalene (PCN) or polybrominated biphenyl (PBB), or any other polybrominated analogues of these compounds, at a concentration level of 50 mg/kg or more.

A 3190 Waste tarry residues (excluding asphalt cements) arising from refining, distillation and any pyrolytic treatment of organic materials

A 3200 Bituminous material (asphalt waste) from road construction and
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maintenance, containing tar (note the related entry on list B, B2130)

A4 WASTES WHICH MAY CONTAIN EITHER INORGANIC OR ORGANIC CONSTITUENTS

A 4010 Wastes from the production, preparation and use of pharmaceutical products but excluding such wastes specified on list B

A 4020 Clinical and related wastes; that is wastes arising from medical, nursing, dental, veterinary, or similar practices, and wastes generated in hospitals or other facilities during the investigation or treatment of patients, or research projects

A 4030 Wastes from the production, formulation and use of biocides and phytopharmaceuticals, including waste pesticides and herbicides which are off-specification, outdated,13 or unfit for their originally intended use

A 4040 Wastes from the manufacture, formulation and use of wood-preserving chemicals

A 4050 Wastes that contain, consist of or are contaminated with any of the following: • Inorganic cyanides, excepting precious-metal-bearing residues in solid form containing traces of inorganic
cyanides • Organic cyanides

A 4060 Waste oils/water, hydrocarbons/water mixtures, emulsions

A 4070 Wastes from the production, formulation and use of inks, dyes, pigments, paints, lacquers, varnish excluding any such waste specified on list B (note the related entry on list B B4010)

A 4080 Wastes of an explosive nature (but excluding such wastes specified on list B)

A 4090 Waste acidic or basic solutions, other than those specified in the corresponding entry on list B (note the related entry on list B B2120)

A 4100 Wastes from industrial pollution control devices for cleaning of industrial off-gases but excluding such wastes specified on list B

A 4110 Wastes that contain, consist of or are contaminated with any of the following: • Any congenor of polychlorinated dibenzo-furan • Any congenor of polychlorinated dibenzo-P-dioxin

A 4120 Wastes that contain, consist of or are contaminated with peroxides

A 4130 Waste packages and containers containing Annex I substances in concentrations sufficient to exhibit Annex III hazard characteristics

A 4140 Waste consisting of or containing off specification or outdated
chemicals corresponding to Annex I categories and exhibiting Annex III hazard characteristics

A 4150 Waste chemical substances arising from research and development or teaching activities which are not identified and/or are new and whose effects on human health and/or the environment are not known

A 4160 Spent activated carbon not included on list B (note the related entry on list B B2060)

Annex IX

List: B

Wastes contained in the Annex will not be wastes covered by Article 1, paragraph 1 (a), of this Convention unless they contain Annex I material to an extent causing them to exhibit an Annex III characteristic.

B1 METAL AND METAL-BEARING WASTES

B 1010 Metal and metal-alloy wastes in metallic, non-dispersible form:

- Precious metals (gold, silver, the platinum group, but not mercury)
- Iron and steel scrap
- Copper scrap
- Nickel scrap
- Aluminium scrap
- Zinc scrap
- Tin scrap
- Tungsten scrap
- Molybdenum scrap
- Tantalum scrap
- Magnesium scrap
Cobalt scrap • Bismuth scrap • Titanium scrap • Zirconium scrap
• Manganese scrap • Germanium scrap • Vanadium scrap •
Scrap of hafnium, indium, niobium, rhenium and gallium •
Thorium scrap • Rare earths scrap • Chromium scrap

B 1020  Clean, uncontaminated metal scrap, including alloys, in bulk
finished form (sheet, plate, beams, rods, etc), of: • Antimony
scrap • Beryllium scrap • Cadmium scrap • Lead scrap (but
excluding lead-acid batteries) • Selenium scrap • Tellurium
scrap

B 1030  Refractory metals containing residues

B 1031  Molybdenum, tungsten, titanium, tantalum, niobium and rhenium
metal and metal alloy wastes in metallic dispersible form (metal
powder), excluding such wastes as specified in list A under
entry A1050, Galvanic sludges

B 1040  Scrap assemblies from electrical power generation not
contaminated with lubricating oil, PCB or PCT to an extent to
render them hazardous

B 1050  Mixed non-ferrous metal, heavy fraction scrap, not containing
Annex I materials in concentrations sufficient to exhibit Annex III
characteristics

B 1060  Waste selenium and tellurium in metallic elemental form
including powder
Requirements and Procedures for the Disposal of Hazardous Wastes

B 1070  Waste of copper and copper alloys in dispersible form, unless they contain Annex I constituents to an extent that they exhibit Annex III characteristics.

B 1080  Zinc ash and residues including zinc alloys residues in dispersible form unless containing Annex I constituents in concentration such as to exhibit Annex III characteristics.

B 1090  Waste batteries conforming to a specification, excluding those made with lead, cadmium or mercury.

B 1100  Metal-bearing wastes arising from melting, smelting and refining of metals: • Hard zinc spelter • Zinc-containing drosses: - Galvanizing slab zinc top dross (>90% Zn) - Galvanizing slab zinc bottom dross (>92% Zn) - Zinc die casting dross (>85% Zn) - Hot dip galvanizers slab zinc dross (batch)>92% Zn) - Zinc skimmings • Aluminium skimmings (or skims) excluding salt slag • Slags from copper processing for further processing or refining not containing arsenic, lead or cadmium to an extent that they exhibit Annex III hazard characteristics • Wastes of refractory linings, including crucibles, originating from copper smelting • Slags from precious metals processing for further refining • Tantalum-bearing tin slags with less than 0.5% tin.

B 1110  Electrical and electronic assemblies: • Electronic assemblies consisting only of metals or alloys • Waste electrical and electronic assemblies or scrap (including printed circuit...
boards) not containing components such as accumulators and other batteries included on list A, mercury-switches, glass from cathode-ray tubes and other activated glass and PCB-capacitors, or not contaminated with Annex I constituents (e.g., cadmium, mercury, lead, polychlorinated biphenyl) or from which these have been removed, to an extent that they do not possess any of the characteristics contained in Annex III (note the related entry on list A A1180) • Electrical and electronic assemblies (including printed circuit boards, electronic components and wires) destined for direct reuse,20 and not for recycling or final disposal21

B 1115 Waste metal cables coated or insulated with plastics, not included in list A A1190, excluding those destined for Annex IVA operations or any other disposal operations involving, at any stage, uncontrolled thermal processes, such as open-burning.

B 1120 Spent catalysts excluding liquids used as catalysts, containing any of:

Transition metals, excluding waste catalysts (spent catalysts, liquid used catalysts or other catalysts) on list A:

• Scandium • Vanadium • Manganese • Cobalt • Copper • Yttrium • Niobium • Hafnium • Tungsten • Titanium • Chromium • Iron • Nickel • Zinc • Zirconium • Molybdenum • Tantalum • Rhenium
Requirements and Procedures for the Disposal of Hazardous Wastes

Lanthanides (rare earth metals):

Lanthanum • Praseodymium • Samarium • Gadolinium •
Dysprosium • Erbium • Ytterbium • Cerium • Neodymium •
Europium • Terbium • Holmium • Thulium • Lutetium

B 1130  Cleaned spent precious-metal-bearing catalysts

B 1140  Precious-metal-bearing residues in solid form which contain traces of inorganic cyanides

B 1150  Precious metals and alloy wastes (gold, silver, the platinum group, but not mercury) in a dispersible, non-liquid form with appropriate packaging and labelling

B 1160  Precious-metal ash from the incineration of printed circuit boards (note the related entry on list A A1150)

B 1170  Precious-metal ash from the incineration of photographic film

B 1180  Waste photographic film containing silver halides and metallic silver

B 1190  Waste photographic paper containing silver halides and metallic silver

B 1200  Granulated slag arising from the manufacture of iron and steel

B 1210  Slag arising from the manufacture of iron and steel including slags as a source of TiO2 and vanadium
### Requirements and Procedures for the Disposal of Hazardous Wastes

**B 1220** Slag from zinc production, chemically stabilized, having a high iron content (above 20%) and processed according to industrial specifications (e.g., DIN 4301) mainly for construction

**B 1230** Mill scaling arising from the manufacture of iron and steel

**B 1240** Copper oxide mill-scale

**B 1250** Waste end-of-life motor vehicles, containing neither liquids nor other hazardous components

### B2 WASTES CONTAINING PRINCIPALLY INORGANIC CONSTITUENTS, WHICH MAY CONTAIN METALS AND ORGANIC MATERIALS

**B 2010** Wastes from mining operations in non-dispersible form: • Natural graphite waste • Slate waste, whether or not roughly trimmed or merely cut, by sawing or otherwise • Mica waste • Leucite, nepheline and nepheline syenite waste • Feldspar waste • Fluorspar waste • Silica wastes in solid form excluding those used in foundry operations

**B 2020** Glass waste in non-dispersible form: • Cullet and other waste and scrap of glass except for glass from cathode-ray tubes and other activated glasses

**B 2030** Ceramic wastes in non-dispersible form: • Cermet wastes and
scrap (metal ceramic composites) • Ceramic based fibres not elsewhere specified or included

B 2040 Other wastes containing principally inorganic constituents: • Partially refined calcium sulphate produced from flue-gas desulphurization (FGD) • Waste gypsum wallboard or plasterboard arising from the demolition of buildings • Slag from copper production, chemically stabilized, having a high iron content (above 20%) and processed according to industrial specifications (e.g., DIN 4301 and DIN 8201) mainly for construction and abrasive applications • Sulphur in solid form • Limestone from the production of calcium cyanamide (having a pH less than 9) • Sodium, potassium, calcium chlorides • Carborundum (silicon carbide) • Broken concrete • Lithium-tantalum and lithium-niobium containing glass scraps

B 2050 Coal-fired power plant fly-ash, not included on list A (note the related entry on list A A2060)

B 2060 Spent activated carbon not containing any Annex I constituents to the extent they exhibit Annex III characteristics, for example, carbon resulting from the treatment of potable water and processes of the food industry and vitamin production (note the related entry on list A A4160)

B 2070 Calcium fluoride sludge

B 2080 Waste gypsum arising from chemical industry processes not
Requirements and Procedures for the Disposal of Hazardous Wastes

included on list A (note the related entry on list A A2040)

B 2090 Waste anode butts from steel or aluminium production made of petroleum coke or bitumen and cleaned to normal industry specifications (excluding anode butts from chlor alkali electrolyses and from metallurgical industry)

B 2100 Waste hydrates of aluminium and waste alumina and residues from alumina production excluding such materials used for gas cleaning, flocculation or filtration processes

B 2110 Bauxite residue (“red mud”) (pH moderated to less than 11.5)

B 2120 Waste acidic or basic solutions with a pH greater than 2 and less than 11.5, which are not corrosive or otherwise hazardous (note the related entry on list A A4090)

B 2130 Bituminous material (asphalt waste) from road construction and maintenance, not containing tar22 (note the related entry on list A, A3200)

B3 WASTES CONTAINING PRINCIPALLY ORGANIC CONSTITUENTS, WHICH MAY CONTAIN METALS AND INORGANIC MATERIALS

B 3010 Solid plastic waste: The following plastic or mixed plastic
Requirements and Procedures for the Disposal of Hazardous Wastes

requirements and procedures for the disposal of hazardous wastes

materials, provided they are not mixed with other wastes and are prepared to a specification: • Scrap plastic of non-
halogenated polymers and co-polymers, including but not limited to the following23 -ethylene -styrene -polypropylene -
polyethylene terephthalate -acrylonitrile -butadiene -polyacetals -polyamides -polybutylene terephthalate -polycarbonates -
polyethers -polyphenylene sulphides -acrylic polymers -alkanes C10-C13 (plasticiser) -polyurethane (not containing CFCs) -
polysiloxanes -polymethyl methacrylate -polyvinyl alcohol -
polyvinyl butyral -polyvinyl acetate

Cured waste resins or condensation products including the following: -urea formaldehyde resins -phenol formaldehyde resins -melamine formaldehyde resins -epoxy resins -alkyd resins -polyamides • The following fluorinated polymer wastes24 -perfluoroethylene/propylene (FEP) -perfluoro alkoxyl alkane -
tetrafluoroethylene/per fluoro vinyl ether (PFA) -
tetrafluoroethylene/per fluoro methylvinyl ether (MFA) -
polyvinylfluoride (PVF) -polyvinylidenefluoride (PVDF)

B 3020 Paper, paperboard and paper product wastes The following materials, provided they are not mixed with hazardous wastes: Waste and scrap of paper or paperboard of: • unbleached paper or paperboard or of corrugated paper or paperboard • other paper or paperboard, made mainly of bleached chemical pulp, not coloured in the mass • paper or paperboard made mainly of
mechanical pulp (for example, newspapers, journals and similar printed matter) • other, including but not limited to 1) laminated paperboard 2) unsorted scrap

Textile wastes

The following materials, provided they are not mixed with other wastes and are prepared to a specification: • Silk waste (including cocoons unsuitable for reeling, yarn waste and garnetted stock) - not carded or combed - other • Waste of wool or of fine or coarse animal hair, including yarn waste but excluding garnetted stock - noils of wool or of fine animal hair - other waste of wool or of fine animal hair - waste of coarse animal hair • Cotton waste (including yarn waste and garnetted stock) - yarn waste (including thread waste) - garnetted stock - other • Flax tow and waste • Tow and waste (including yarn waste and garnetted stock) of true hemp (Cannabis sativa L.) • Tow and waste (including yarn waste and garnetted stock) of jute and other textile bast fibres (excluding flax, true hemp and ramie) • Tow and waste (including yarn waste and garnetted stock) of sisal and other textile fibres of the genus Agave • Tow, noils and waste (including yarn waste and garnetted stock) of coconut • Tow, noils and waste (including yarn waste and garnetted stock) of abaca (Manila hemp or Musa textilis Nee) • Tow, noils and waste (including yarn waste and garnetted stock) of ramie and other vegetable textile fibres, not elsewhere specified or included
Requirements and Procedures for the Disposal of Hazardous Wastes

- Waste (including noils, yarn waste and garnetted stock) of man-made fibres - of synthetic fibres - of artificial fibres
- Worn clothing and other worn textile articles
- Used rags, scrap twine, cordage, rope and cables and worn out articles of twine, cordage, rope or cables of textile materials - sorted – other

B 3035 Waste textile floor coverings, carpets

B 3040 Rubber wastes The following materials, provided they are not mixed with other wastes:
- Waste and scrap of hard rubber (e.g., ebonite)
- Other rubber wastes (excluding such wastes specified elsewhere)

B 3050 Untreated cork and wood waste:
- Wood waste and scrap, whether or not agglomerated in logs, briquettes, pellets or similar forms
- Cork waste: crushed, granulated or ground cork

B 3060 Wastes arising from agro-food industries provided it is not infectious:
- Wine lees
- Dried and sterilized vegetable waste, residues and byproducts, whether or not in the form of pellets, of a kind used in animal feeding, not elsewhere specified or included
- Degras: residues resulting from the treatment of fatty substances or animal or vegetable waxes
- Waste of bones and horn-cores, unworked, defatted, simply prepared (but not cut to shape), treated with acid or degelatinised
- Fish waste
- Cocoa shells, husks, skins and other cocoa waste
- Other wastes from the agro-food industry excluding by-products which meet
national and international requirements and standards for human or animal consumption

B 3065 Waste edible fats and oils of animal or vegetable origin (e.g. frying oils), provided they do not exhibit an Annex III characteristic

B 3070 The following wastes: • Waste of human hair • Waste straw • Deactivated fungus mycelium from penicillin production to be used as animal feed

B 3080 Waste parings and scrap of rubber

B 3090 Paring and other wastes of leather or of composition leather not suitable for the manufacture of leather articles, excluding leather sludges, not containing hexavalent chromium compounds and biocides (note the related entry on list A A3100)

B 3100 Leather dust, ash, sludges or flours not containing hexavalent chromium compounds or biocides (note the related entry on list A A3090)

B 3110 Fellmongery wastes not containing hexavalent chromium compounds or biocides or infectious substances (note the related entry on list A A3110)

B 3120 Wastes consisting of food dyes

B 3130 Waste polymer ethers and waste non-hazardous monomer
ethers incapable of forming peroxides

B 3140 Waste pneumatic tyres, excluding those destined for Annex IVA operations

B4 WASTES WHICH MAY CONTAIN EITHER INORGANIC OR ORGANIC CONSTITUENTS

B 4010 Wastes consisting mainly of water-based/latex paints, inks and hardened varnishes not containing organic solvents, heavy metals or biocides to an extent to render them hazardous (note the related entry on list A A4070)

B 4020 Wastes from production, formulation and use of resins, latex, plasticizers, glues/adhesives, not listed on list A, free of solvents and other contaminants to an extent that they do not exhibit Annex III characteristics, e.g., water-based, or glues based on casein, starch, dextrin, cellulose ethers, polyvinyl alcohols (note the related entry on list A A3050)

B 4030 Used single-use cameras, with batteries not included on list A
## Annex 2: Fee Structure

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Fee type</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Application Fee</td>
<td>100 AED</td>
</tr>
<tr>
<td>2</td>
<td>Permit Fee</td>
<td>300 AED</td>
</tr>
</tbody>
</table>
Annex 3: Waste Material Data Sheet

**WASTE MATERIAL DATA SHEET**

<table>
<thead>
<tr>
<th>W.A.C.</th>
<th>1 W.A.C. per waste, per producer and per year</th>
</tr>
</thead>
</table>

1. **WASTE PRODUCER - GENERAL INFORMATION**

<table>
<thead>
<tr>
<th>Company name</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Company representative</th>
<th>Industrial Group</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

<table>
<thead>
<tr>
<th>Fax</th>
<th>Core Business</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Email</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. **WASTE DESCRIPTION**

Name of the residue: ____________________________

Commercial name: ______________________________

Waste Catalogue Code: _____ _____

Describe the process that produces the material: ____________________________

2.1. **WASTE QUANTITY AND STORAGE**

Expected annual quantity: _____ T

Production period: _____ days/year

|     |                          | IBC | 1000L □ | Big Bag | 1000L □ |
|-----|--------------------------|-----|---------|---------|
| □   |                          |     |         |         |

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Drums 200 L □</th>
<th>120L □</th>
<th>&lt; 60 L □</th>
<th>Metallic □</th>
</tr>
</thead>
<tbody>
<tr>
<td>□</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Quantities</th>
<th>Plastic □</th>
</tr>
</thead>
<tbody>
<tr>
<td>□</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Jerrycans 60L □</th>
<th>30L □</th>
<th>10L □</th>
<th>&lt;5L □</th>
</tr>
</thead>
<tbody>
<tr>
<td>□</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Other storages</th>
<th>Nature</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>□</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Quantities</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>□</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Hazardous waste definition and classification soon available on the CWMAD internet site

2. Classification code soon available on the CWMAD internet site
3. WASTE ANALYTIC INFORMATION

3.1. PHYSICAL ASPECT

<table>
<thead>
<tr>
<th>Solid</th>
<th>Liquid</th>
<th>Pasty sludge</th>
<th>Gaseous</th>
<th>Controlled temperature: __ __ °C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Homogenous</td>
</tr>
<tr>
<td>Odour:</td>
<td>Faint</td>
<td>Perceptible but tolerable</td>
<td>Very strong and Nauseous</td>
<td></td>
</tr>
<tr>
<td>Solubility in:</td>
<td>Water</td>
<td>Acids</td>
<td>Alkalis</td>
<td>Others</td>
</tr>
</tbody>
</table>

Main components | Expected range %

3.2. ANALYSIS DATA

<table>
<thead>
<tr>
<th>pH</th>
<th>Flash point °C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Heavy metals (mg/kg or ppm)</th>
<th>Cd+Tl=</th>
<th>Sb + As + Pb + Cr + Co + Cu + Mn + Ni + V=</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine</td>
<td>___</td>
<td>Sulphur</td>
</tr>
<tr>
<td>Fluorine</td>
<td>___</td>
<td>Phosphorus</td>
</tr>
</tbody>
</table>

4. SAFETY INFORMATION (IF AVAILABLE JOIN THE MATERIAL SAFETY DATA SHEET)

4.1. INTERVENTION AND HANDLING HAZARDS

Did waste, raw materials or process involve the following substances? (tick the box)

<table>
<thead>
<tr>
<th>No</th>
<th>Yes</th>
<th>Range in %</th>
<th>No</th>
<th>Yes</th>
<th>Range in %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organic or mineral</td>
<td>☐</td>
<td>☐</td>
<td>Perchlorates</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Organic Nitrites</td>
<td>☐</td>
<td>☐</td>
<td>Explosives</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Organic Nitroses</td>
<td>☐</td>
<td>☐</td>
<td>Radioactive products</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Acid Anhydrides</td>
<td>☐</td>
<td>☐</td>
<td>Biological waste</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Ethers</td>
<td>☐</td>
<td>☐</td>
<td>Tear-gas products</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Selenide products</td>
<td>☐</td>
<td>☐</td>
<td>Phenol</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>PCB - PCT</td>
<td>☐</td>
<td>☐</td>
<td>Benzene</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>PCP</td>
<td>☐</td>
<td>☐</td>
<td>Reducing agents</td>
<td>☐</td>
<td>☐</td>
</tr>
</tbody>
</table>

Waste handling and storage safety precautions:

Waste characterisation: Noxious ☐ Lacrimester ☐ Oxidant ☐ Toxic by contact ☐
Toxic by ingestion ☐ Corrosive ☐ Flammable ☐ Irritant ☐ Toxic by inhalation ☐
Requirements and Procedures for the Disposal of Hazardous Wastes

Safety equipment:
- Gloves type (ex: PVC...)
- Glasses
- Boiler suit (ex: anti-acid...)
- Breathing protections necessary
  - Yes
  - No

4.2. Chemical Hazards

Fill up with the right answer available:

<table>
<thead>
<tr>
<th>Type of contact</th>
<th>Steam or gas emission</th>
<th>Ignition</th>
<th>Explosion</th>
<th>Polymerisation hazard</th>
<th>Bulk setting</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>With Heat</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Under compression</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Do not mix with</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- water
- air
- acid
- alkali
- oxidiser
- reducing agent
- Others

5. Transportation (UN Regulation)³

- UN class: ____________
- Description: ____________________________
- Packaging group: ____________
- S__________
- Packaging road signs: Hazards labels: ____________
- UN Number: ____________

6. Liabilities

The waste producer undersigned:
- Certifies that he looked through the acceptance and procedure operative by CWM,
- Certifies that he knows the liabilities by virtue of the law and contracts to provide, to the best of his knowledge, all the information required for the waste elimination,
- Certifies that the waste does not contain explosive products and weapons, radioactive waste, animal carcasses, highly dangerous biological waste, big solids with not acceptable size on site,
- Certifies that no substantive information related to the description or the management of the material is omitted,
- Contracts to deliver material corresponding to the information given above and to the representative sample,
- Contracts to notify all the characteristic modifications of the material,

At: ____________________________

Date: ____________________________

Producer's stamp:

Signature:

Title:

³ For more information, please check soon CWMAD internet site
Requirements and Procedures for the Disposal of Hazardous Wastes

Annex 4: Process Flow

Start

Waste Generator

Landfill Application Certificate submission to customer service through CWM approved ESP

Approved by SME

Yes

No

Application Fee submitted by ESP

Yes

No

Subject Matter Expert (SME)

Yes

No

Temporary Storage at landfill in CWM approved facility

Manifest

Approval Fee submission

Yes

No

Approval

Licensing officer

End
Annex 5: Manifest

Waste Manifest

<table>
<thead>
<tr>
<th>Hazardous Waste</th>
<th>Medical Waste</th>
<th>Non-Hazardous Waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manifest Tracking Number</td>
<td>Emergency Response Phone</td>
<td>CWM Permit No.</td>
</tr>
<tr>
<td>Trip No. / Total Trips Under Permit</td>
<td>Waste Generator(s) / Producer(s)</td>
<td></td>
</tr>
<tr>
<td>Trade License No.</td>
<td>Company Name:</td>
<td>Address (Line 1):</td>
</tr>
<tr>
<td>Telephone:</td>
<td>Email:</td>
<td>Fax:</td>
</tr>
<tr>
<td>Address (Line 2):</td>
<td>Site of generation:</td>
<td>Contact Person:</td>
</tr>
</tbody>
</table>

Special Handling instructions and additional information:

Generator's / Producer's declaration:

I certify that the above mentioned information is complete and correct to the best of my knowledge. I also certify that the waste is classified, packaged, marked and labeled and are in all respects in proper condition for transportation according to applicable international and UAE laws & regulations.

Name: Signature Date

Authorized Company Stamp

Waste Transporter - (To be completed by Carrier's Representative)

CWM RSVP permit No. | Vehicle Plate No. |
| Company Name: | Telephone: |
| Contact Person: | |

Transporter acknowledgement of receipt of material:

Name: Signature Date

Authorized Company Stamp

Designated Facility for Disposal / Treatment - (To be completed by Disposal / Treatment Facility Representative)

Disposal | Treatment | Contact Person: |
| Company Name: | Telephone: | Fax: |
| Actual Site of Disposal / Treatment: |

Designated Disposal / Treatment Facility Owner or Operator - Certification of receipt of waste material covered by the manifest:

Name: Signature Date

Authorized Company Stamp
Requirements and Procedures for the Disposal of Hazardous Wastes

* Waste Code

<table>
<thead>
<tr>
<th>Waste Code</th>
<th>Waste Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Garbage Waste</td>
</tr>
<tr>
<td>2</td>
<td>Hazardous Waste</td>
</tr>
<tr>
<td>3</td>
<td>Medical Waste</td>
</tr>
<tr>
<td>4</td>
<td>Non-Hazardous Waste</td>
</tr>
<tr>
<td>5</td>
<td>Oil Waste</td>
</tr>
<tr>
<td>6</td>
<td>Scrap Waste</td>
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<td>7</td>
<td>Sewage Waste</td>
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</table>

Terms and Conditions:
- Any alteration or misuse of issued approval shall make the manifest / approval null and void.
- Registered Service Providers shall provide copy of manifest (signed & stamped by all entities) to the following entities:
  (I) Waste Generator / Producer
  (II) Landfill / Treatment Facility Operator
  (III) Center of Waste Management
- Registered Service Providers shall submit copies of all manifest and RSP Register (Waste Generator wise) to the Center of Waste Management (CWM) on monthly basis.
- Transport Emergency Card (TREM) to be always accompanied with driver and operator of Hazardous Waste transportation vehicle. Drivers and Operators shall be trained to read / use TREM Card in case of emergency.
- Emergency Plan, Waste Material Data Sheet (WMDS), Material Safety Data Sheet (MSDS) shall be available with Drivers and Operators of Hazardous Waste transportation Vehicle.
- Drivers & Operators shall be trained on implementation of Emergency Plan in case of emergency.
- For details of Guidelines, refer to www.cwm.ae & www.nadafa.ae websites.
Annex 6: Application Form

Disposal of Hazardous Waste Application

Before completing this application please read relevant sections of the Waste Guidelines and explanatory material on the CWMAD website relating to waste immobilization.

Application fee
The current application fee is AED 100 for Application Submission fees and AED 300 upon permit approval.

Disposal of Hazardous Waste Application

For Official Use
Reference No.
Date Of Lab Certificate: Date Of Application:
Date Of Technical Approval: Date Of Center Approval (Letter Attachment):

1. Company / Establishment (Waste Generator):

Company Name (En):
Company Name (Ar):
Legal Form: Trade license No.:
Issue Date: Expiry Date:
P.O.BOX: City:
Zone/Area:
Street:
Apartment No.: Building:
Telephone No.: Fax No.:
Mobile No.: Email:

Your Waste, Your Responsibility

Page 1 of 4
2. Disposal Procedures (WG & RSP):

Type of Waste:
Quantity Of Waste:
Confirm Waste Type:
Instructions for storage or disposal: (Please Attach Method Statement)
Packaging or Containment or segregation Requirements:
Location Of Storage or Disposal:
Method Of Storage and/or Disposal:
Disposal In Lined Cell:
Disposal In Evaporation Pond:
Disposal At Another Designated Facility:
Other Procedure or Additional conditions:

3. Transporter Details (Registered Service Provider):

Company Name (En):
Company Name (Ar):
NADAFA Permit No.: Expiry Date:
Trade License No.: Expiry date:
Contact Person:
Telephone No.: Mobile No:

4. Technical Contact (Who should the CWM contact for technical enquiries about this application):

Name:
Employer: Job Title:
Type of business or Industry:
Phone (Business): Phone (after hours):
Fax: Email:

Page 2 of 4
### 5. Vehicles Details:

<table>
<thead>
<tr>
<th>S/N</th>
<th>Plate No.</th>
<th>Plate Source</th>
<th>Plate Color</th>
<th>Plate Code</th>
<th>Waste Type</th>
<th>Vehicle Capacity</th>
<th>Unit of Measure</th>
<th>Vehicle Type</th>
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</table>

### 6. Authorized Trips

- Total No. of Trips: [ ]
- Landfill: [ ]

### 7. Applicant’s signature:

- Signature Date: [ ]
- Applicant Name: [ ]
- Direct Phone: [ ]
- Job Title: [ ]
### Requirements and Procedures for the Disposal of Hazardous Wastes

#### 8. Approval Status (For official use only)

<table>
<thead>
<tr>
<th>Status</th>
<th>Approved</th>
<th>Rejected</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>One time approval</td>
<td>Annual Approval</td>
</tr>
</tbody>
</table>

**Approved With Conditions:**

**Rejection Reasons:**

**Telephone No.**

**Name:**

**Date:**

**Signature & Stamp**

---

Your Waste, Your Responsibility

Page 4 of 4
Annex 7: List of Registered Service Providers

The list of Registered Service Providers can be accessed through below mentioned website link:

## Annex 8: Document Checklist

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Requirement</th>
<th>Provided (Check Available)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Application form</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Waste Material Data Sheet (WMDS)</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Material Safety Data Sheet (MSDS), if available</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Lab Test Report</td>
<td></td>
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<tr>
<td>5</td>
<td>Legal &amp; administrative documents</td>
<td></td>
</tr>
</tbody>
</table>
Annex 9: Hazardous Waste Annual Approval Process

1. Waste Generator applies to CWM for annual approval for hazardous waste disposal

2. CWM approval granted for one year

3. Waste Generators to submit a consignment note of hazardous waste

4. Is documentation checked by disposal facility operator

   - Copy of Waste Generation Consignment Note to be forwarded to CWM prior to transportation
   - Further checking and investigation required by site operator, and if necessary CWM will investigate

5. 2 Copies of waste generation consignment returned by disposal facility operator

   - Kept on a record in the disposal site

   - Returned to CWM

   1 Copy
Annex 10: Waste Consignment Note

Waste Generation Consignment Note

1. Company / Establishment (Waste Generator):

<table>
<thead>
<tr>
<th>Waste Generator</th>
<th>P. O. Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Person</td>
<td></td>
</tr>
<tr>
<td>Tel.</td>
<td>Fax.</td>
</tr>
</tbody>
</table>

2. Waste Details

<table>
<thead>
<tr>
<th>Annual Approval No.</th>
<th>Waste Type Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste Description</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Permit Approved Quantity</th>
<th>Volume (cubic meter)</th>
<th>Mass (metric tonnes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity of this waste load</td>
<td></td>
<td></td>
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<tr>
<td>Cumulative Disposed Waste this year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disposal Remainder of this permit</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Requirements and Procedures for the Disposal of Hazardous Wastes

3. Transport (registered Service Providers)

<table>
<thead>
<tr>
<th>Transport Company</th>
<th>NADAFA Permit No.</th>
<th>Expiry Date</th>
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<tr>
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<thead>
<tr>
<th>Vehicle Registration No.</th>
<th>Vehicle Permit No.</th>
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| Designated Disposal Site | |
|--------------------------||

Acknowledgment of Responsibility

I certify on the behalf of the Waste Generator that the waste stated above was generated by us & conforms with the approval specified above.

<table>
<thead>
<tr>
<th>Authorized Signatory:</th>
<th>Signature &amp; Stamp:</th>
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<tr>
<th>Designation</th>
<th>Date</th>
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</table>
## Annex 11: RSP Monthly Register

<table>
<thead>
<tr>
<th>Date of Loading</th>
<th>Manifest Number</th>
<th>H.W. Producer</th>
<th>Waste Denomination</th>
<th>Waste Family (List)</th>
<th>Packed / bulky</th>
<th>Quantities (T)</th>
<th>Packaging (List)</th>
<th>Nature (List)</th>
<th>UN Classification</th>
<th>Date of Unloading</th>
<th>Interim Storage</th>
<th>Date of Unloading</th>
<th>Treatment ESP</th>
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