

INDUSTRIAL EMISSIONS DATA DICTIONARIES (DRAFT)

Author: Med Pol
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Version 2.1

DRAFT DATA DESCRIPTION DOCUMENT

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1. Introduction

This document provides a description of the data sets required for calculating the selected Horizon 2020 Industrial Emission indicators (see Annex 1), thereby referred to as “Data Description Document”. It will feed into the Data Dictionary of the Info-RAC system - a central service for storing technical specifications for information requested in reporting, with the purpose of supporting countries in reporting good quality data.

2. Overview of H2020 Industrial Emissions Indicators

| No. | Title of indicator | Sub-indicators |
|---------|---|---|
| IND 6.1 | Release of nutrients from industrial sectors | <p>6.1.1) Total BOD load discharged from industrial installations to the Mediterranean marine environment.</p> <p>6.1.2) Total Nitrogen load discharged from industrial installations to the Mediterranean marine environment.</p> <p>6.1.3) Total Phosphorus load discharged from industrial installations to the Mediterranean marine environment.</p> |
| IND 6.2 | Release of toxic substances from industrial sectors | <p>6.2.1) Total heavy metals load discharged from industrial installations to the Mediterranean marine environment.</p> <p>6.2.2) Furans and dioxins load discharged from industrial installations to the Mediterranean marine environment.</p> <p>6.2.3) Polycyclic aromatic hydrocarbons (PAH) load discharged from industrial installations to the Mediterranean marine environment.</p> <p>6.2.4) Volatile organic compounds (VOC) load discharged from industrial installations to the Mediterranean marine environment.</p> |
| IND 6.3 | Industrial hazardous waste disposed in environmentally sound manner | <p>6.3.1) Total quantity of generated hazardous waste from industrial installations.</p> <p>6.3.2) Quantity of industrial hazardous waste disposed in environmentally sound manner relative to total quantity of generated hazardous waste from industrial installations.</p> |

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| IND 6.4 | Compliance measures aiming at the reduction and/or elimination of pollutants generated by industrial sectors | <p>6.4.1) Number of industrial installations reporting periodically loads of pollutants discharged to the marine and coastal environments relative to the total number of industrial installations.</p> <p>6.4.2) Number of environmental inspections carried out by enforcement authorities in which industrial installations were found to be in breach of laws and regulations relative to the total number of executed inspections.</p> <p>6.4.3) Number of eliminated hotspots identified in the updated NAPs relative to the 2001 and 2015 baselines</p> |
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3. Description of Indicators

IND 6.1: Release of nutrients from industrial sectors

Dataset definition

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|--------------------------------|---|
| Sub-indicators | <p>6.1.1) Total BOD load discharged from industrial installations to the Mediterranean marine environment.</p> <p>6.1.2) Total Nitrogen load discharged from industrial installations to the Mediterranean marine environment.</p> <p>6.1.3) Total Phosphorus load discharged from industrial installations to the Mediterranean marine environment.</p> |
| Key words | Nutrients, BOD, total nitrogen (TN), total phosphorus (TP) |
| Spatial coverage | Administrative regions of the whole Mediterranean sea watershed as defined in section 3.1 of the “Updated guidelines to assess national budget of pollutants (NBB)” [UNEP(DEPI)/MED WG. 404/4]. |
| Dataset relevance | This indicator is referenced by a number of pollution reduction programmes and environmental initiatives including H2020 and NAPs. The indicator complements IMAP indicator 13 (eutrophication) and is in line with the requirements of the Regional plan on the reduction of BOD5 in the food sector. It also provides data and information regarding the operational target identified by the Mediterranean countries with regards to reduction of BOD discharges to the Mediterranean Sea. |
| Parameters | Estimated or calculated pollution loads for BOD, total nitrogen (TN), total phosphorus (TP). |
| Methodology for obtaining data | Delivered by country |
| Planned update frequency | Every 2 years |

Overview of data tables

| Data table | Name | Definition | Short description |
|------------|---|--|---------------------------------------|
| 6.1.1 | Total BOD load discharged from industrial installations to the Mediterranean marine environment | Biological Oxygen Demand (BOD) is the amount of dissolved oxygen needed (i.e. demanded) by aerobic biological organisms to break down organic material present in a given water sample at certain temperature over a specific time period. This indicator presents information on the BOD estimate of industrial wastewater effluents discharged from food sector industries listed in Appendix I of Decision IG.20/8.2 and other industries within the hydrological basin discharging directly or indirectly into the Mediterranean Sea. | BOD load. (tonnes/year) |
| 6.1.2 | Total Nitrogen load discharged from industrial installations to the Mediterranean marine environment | Total Nitrogen (TN) comprises the ions nitrate, nitrite and ammonium in the dissolved phase (DIN) and the organic forms of nitrogen (mostly proteins and other N-containing substances) existing in biota and other particulate materials and in dissolved organic matter. | Total nitrogen load. (tonnes/year) |
| 6.1.3 | Total Phosphorus load discharged from industrial installations to the Mediterranean marine environment | Total Phosphorus (TP) comprises the dissolved ion phosphate and the organic forms of phosphorus existing in biota and other particulate materials (POP) and in dissolved organic matter (DOP). | Total phosphorus load (tonnes/year) |

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Data table 6.1.1: Total BOD load discharged from industrial installations to the Mediterranean marine environment

| | Column name | Column definition | Methodology | Data specifications | Equivalent in WISE if exist |
|----|------------------------|---|---|---|-----------------------------|
| 1. | Country_Code | Country codes as defined in the codelist | ISO 3166-I-alpha-3, Codes elements as defined in codelist (i) | Type of element: common Datatype: integer Size: 3 | |
| 2 | Administrative_Region | Administrative regions located in drainage basins that outflow into the Mediterranean. Administrative regions as defined in the codelist | List of regions from NBB info system | Type of element: common Datatype:-integer Min. size: 3 Max. size: 4 | |
| 3 | Year_H2020 | Year for which data is available | Use the format YYYY | Type of element: common Datatype: date Min. size: 4 Max. size: 4 Min. value: 2003 Max. value: current year | |
| 4. | BOD | Quantity of released Biological Oxygen Demand (tonnes/year) | Total BOD load as of the reference year (Year_H2020) | Type of element: common Datatype: decimal Decimal precision: 2 Unit: metric tonnes per year Min. size: 1 Max. size: 8 Min. value: 1 Max. value: 10,000,000 | |
| 5 | ID_of_Sectors | Industrial Sector ID | Sectors according to LBS Protocol 30 categories; Code list iii | | |
| 6 | ID_of_Subsector | Subsectors Sector ID | Subsectors: 97 categories Code list iv | | |
| 7 | Data_Collection_Method | Method of data collection | Codes elements as defined in codelist (ii): "Field measurement" and "Emission factor" | Type of element: common Datatype: integer Min. size: 4 Size: 3 | |



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|---|---------|--|--|--|--|
| 8 | Remarks | Remarks, comments or explanatory notes (free text) | | Type of element: common Datatype: string Min. size: 0 Max. size: 4096 | |
|---|---------|--|--|--|--|

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Data table 6.1.2: Total Nitrogen load discharged from industrial installations to the Mediterranean marine environment

| | Column name | Column definition | Methodology | Data specifications | Equivalent in WISE if exist |
|----|-----------------------|---|--|--|-----------------------------|
| 1. | Country_Code | Country codes as defined in the codelist | ISO 3166-I-alpha-3, Codes elements as defined in codelist (i) | Type of element: common Datatype: integer Size: 3 | |
| 2. | Administrative_Region | Administrative regions located in drainage basins that outflow into the Mediterranean. Administrative regions as defined in the codelist | List of regions from NBB info system | Type of element: common Datatype: integer Min. size: 3 Max. size: 4 | |
| 3. | Year_H2020 | Year for which data is available | Use the format YYYY | Type of element: common Datatype: date Min. size: 4 Max. size: 4 Min. value: 2003 Max. value: Today() function | |
| 4. | TN | Quantity of released total nitrogen | Total nitrogen load as of the reference year (Year_H2020) | Type of element: common Datatype: decimal Decimal precision: 2 Unit: metric tonnes per year Min. size: 3 Max. size: 10 Min. value: 1.00 Max. value: 10,000,000.00 | |
| 5 | ID_of_Sectors | Industrial Sector ID | Sectors according to LBS Protocol 30 categories; Code list iii | Type of element: common Datatype: integer Size: 2 | |
| 6 | ID_of_Subsector | Subsectors Sector ID | Subsectors: 97 categories Code list iv | Type of element: common Datatype: integer Size: 2 | |



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|----|------------------------|--|---|--|--|
| 7 | Data_Collection_Method | Method of data collection | Codes elements as defined in codelist (ii): "Field measurement" and "Emission factor" | Type of element: common Datatype: integer Size: 3 | |
| 8. | Remarks | Remarks, comments or explanatory notes (free text) | | Type of element: common Datatype: Blob Max. size: 4096 | |

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Data table 6.1.3: Total phosphorus load discharged from industrial installations to the Mediterranean marine environment

| | Column name | Column definition | Methodology | Data specifications | Equivalent in WISE if exist |
|----|-----------------------|---|--|--|-----------------------------|
| 1. | Country_Code | Country codes as defined in the codelist | ISO 3166-I-alpha-3, Codes elements as defined in codelist (i) | Type of element: common Datatype: integer Size: 3 | |
| 2. | Administrative_Region | Administrative regions located in drainage basins that outflow into the Mediterranean. Administrative regions as defined in the codelist | List of regions from NBB info system | Type of element: common Datatype: integer Min. size: 3 Max. size: 4 | |
| 3 | Year_H2020 | Year for which data is available | Use the format YYYY | Type of element: common Datatype: date Min. size: 4 Max. size: 4 Min. value: 2003 Max. value: Today() function | |
| 4 | TP | Quantity of released total phosphorus | Total phosphorus load as of the reference year (Year_H2020) | Type of element: common Datatype: decimal Decimal precision: 2 Unit: metric tonnes per year Min. size: 3 Max. size: 10 Min. value: 1.00 Max. value: 10,000,000.00 | |
| 5 | ID_of_Sectors | Industrial Sector ID | Sectors according to LBS Protocol 30 categories; Code list iii | Type of element: common Datatype: integer Size: 2 | |
| 6 | ID_of_Subsector | Subsectors Sector ID | Subsectors: 97 categories Code list iv | Type of element: common Datatype: integer Size: 2 | |



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|---|------------------------|--|---|--|--|
| 7 | Data_Collection_Method | Method of data collection | Codes elements as defined in codelist (ii): " <i>Field measurement</i> " and " <i>Emission factor</i> " | Type of element: common Datatype: integer Size: 3 | |
| 8 | Remarks | Remarks, comments or explanatory notes (free text) | | Type of element: common Datatype: Blob Max. size: 4096 | |



IND 6.2: Release of toxic substances from industrial sectors

Dataset definition

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|--------------------------------|--|
| Sub-indicators | 6.2.1) Total heavy metals load released from industrial installations to the Mediterranean marine environment. 6.2.2) Furans and dioxins load released from industrial installations to the Mediterranean marine environment. 6.2.3) Polycyclic aromatic hydrocarbons (PAH) load released from industrial installations to the Mediterranean marine environment. 6.2.4) Volatile organic compounds (VOC) load released from industrial installations to the Mediterranean marine environment. |
| Key words | Heavy metals, halogenated hydrocarbons, furans, dioxins, PAH, VOC |
| Spatial coverage | Administrative regions of the whole Mediterranean sea watershed as defined in section 3.1 of the "Updated guidelines to assess national budget of pollutants (NBB)" [UNEP(DEPI)/MED WG. 404/4]. |
| Dataset relevance | This indicator is referenced by a number of pollution reduction programmes and environmental initiatives including H2020 and NAPs. The indicator complements IMAP indicator 13 (eutrophication) and is in line with the requirements of the Regional plan on the reduction of BOD5 in the food sector. It also provides data and information regarding the operational target identified by the Mediterranean countries with regards to reduction of BOD discharges to the Mediterranean Sea. |
| Parameters | Estimated or calculated pollution loads for heavy metals, furans and dioxins, Polycyclic aromatic hydrocarbons (PAH), and Volatile organic compounds (VOC). |
| Methodology for obtaining data | Delivered by country |
| Planned update frequency | Every 2 years |

Overview of data tables

| Data table | Name | Definition | Short description |
|------------|---|--|------------------------------|
| 6.2.1 | Total heavy metals load released from industrial installations to the Mediterranean marine environment | Six heavy metals have been identified in SAP-MED. These include: i. Mercury. The most important industrial sources of mercury are combustion of coal in power plants; chlor-alkali production; manufacture and disposal of batteries; waste incineration and roasting and smelting in non-ferrous metal smelters. ii. Cadmium. The most important industrial sources of cadmium are zinc and lead metal processing; electroplating; the production of cadmium compounds; pigment production; the manufacture and disposal of batteries; the production of stabilizers for plastics and phosphate | Heavy metals load (kg/years) |

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| Data table | Name | Definition | Short description |
|------------|---|---|--------------------------------------|
| | | <p>fertilizers.</p> <p>iii. Lead. The most important industrial sources of lead are lead metallurgy; the manufacture and disposal of batteries; additives for petrol; enamels and ceramic glazes and glass manufacture.</p> <p>iv. Zinc is a commonly occurring trace-metal and is essential to living organisms for enzymatic functions. High levels of zinc are found in coastal areas and biota. Dispersion and diffusion can rapidly remove zinc.</p> <p>v. Copper: The most important industrial sources of copper are metallurgy, covering of metallic surfaces; electric cables and pesticides.</p> <p>vi. Chromium: The most important industrial sources of chrome are: chrome metallurgy; covering of metals; tanneries; textile and wool dyeing; corrosion inhibitors in closed cycle cooling systems.</p> | |
| 6.2.2 | Furans and dioxins load released from industrial installations to the Mediterranean marine environment | <p>Furans and dioxins are halogenated hydrocarbons known chemically identified as polychlorinated dibenzo-furans (PCDF) and polychlorinated dibenzo-dioxins (PCDD). They can be found as contaminants in some products and can be produced in combustion processes</p> | Furans and dioxins load (grams/year) |

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| Data table | Name | Definition | Short description |
|-------------------|---|--|--------------------------|
| 6.2.3 | Polycyclic aromatic hydrocarbons (PAH) load released from industrial installations to the Mediterranean marine environment | Polycyclic aromatic hydrocarbons (PAH) contain hundreds of substances occurring naturally in oil in ppm levels. PAHs are formed from the incomplete combustion of organic matter and this process is the main source of PAHs in air | PAH load (kg/year) |
| 6.2.4 | Volatile organic compounds (VOC) load released from industrial installations to the Mediterranean marine environment | Volatile Organic Compounds (VOC) are organic compounds that easily become vapour or gas. VOCs are emitted from a variety of sources including motor vehicles, chemical manufacturing facilities, refineries, factories, etc. | VOC load (kg/year) |

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Data table 6.2.1: Total heavy metals load released from industrial installations to the Mediterranean marine environment

| | Column name | Column definition | Methodology | Data specifications | Equivalent in WISE if exist |
|----|------------------------|---|--|---|-----------------------------|
| 1. | Country_Code | Country codes as defined in the codelist | ISO 3166-I-alpha-3, Codes elements as defined in codelist (i) | Type of element: common Datatype: integer Size: 3 | |
| 2. | Administrative_Region | Administrative regions located in drainage basins that outflow into the Mediterranean. Administrative regions as defined in the codelist | List of regions from NBB info system | Type of element: common Datatype:-integer Min. size: 3 Max. size: 4 | |
| 3. | Year_H2020 | Year for which data is available | Use the format YYYY | Type of element: common Datatype: date Min. size: 4 Max. size: 4 Min. value: 2003 Max. value: Today() function | |
| 4. | Heavy metals_ID | Total quantity of released heavy metals | Total heavy metals (including mercury, cadmium, lead, zinc, copper and chromium) load as of the reference year (tonnes/year) (Year_H2020) Codelist VI | Type of element: common Datatype: decimal Decimal precision: 2 Unit: kg per year Min. size: 3 Max. size: 9 Min. value: 0.00 Max. value: 1,000,000.00 | |
| 5 | ID_of_Sectors | Industrial Sector ID | Sectors according to LBS Protocol 30 categories; Code list iii | Type of element: common Datatype: integer Size: 2 | |
| 6. | ID_of_Subsector | Subsectors Sector ID | Subsectors: 97 categories Code list iv | Type of element: common Datatype: integer Size: 2 | |
| 7. | Data_Collection_Method | Method of data collection | Codes elements as defined in codelist (ii): " <i>Field measurement</i> " and " <i>Emission factor</i> " | Type of element: common Datatype: integer Size: 3 | |

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|----|---------|--|--|--|--|
| 8. | Remarks | Remarks, comments or explanatory notes (free text) | | Type of element: common Datatype: Blob Max. size: 4096 | |
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Data table 6.2.2: Furans and dioxins load released from industrial installations to the Mediterranean marine environment

| | Column name | Column definition | Methodology | Data specifications | Equivalent in WISE if exist |
|----|-----------------------|---|---|--|-----------------------------|
| 1. | Country_Code | Country codes as defined in the codelist | ISO 3166-I-alpha-3, Codes elements as defined in codelist (i) | Type of element: common Datatype: integer Size: 3 | |
| 2. | Administrative_Region | Administrative regions located in drainage basins that outflow into the Mediterranean. Administrative regions as defined in the codelist | List of regions from NBB info system | Type of element: common Datatype: integer Min. size: 3 Max. size: 4 | |
| 3. | Year_H2020 | Year for which data is available | Use the format YYYY | Type of element: common Datatype: date Min. size: 4 Max. size: 4 Min. value: 2003 Max. value: today() function | |
| 4. | PCDF, PCDD | Total quantity of released furans and dioxins | Total furans and dioxins load as of the reference year (Year_H2020) | Type of element: common Datatype: decimal Decimal precision: 2 Unit: grams per year Min. size: 3 Max. size: 9 Min. value: 1.00 Max. value: 1,000,000.00 | |
| 5. | ID_of_Sectors | Industrial Sector ID | Sectors according to LBS Protocol 30 categories; Code list iii | Type of element: common Datatype: integer Size: 2 | |
| 6. | ID_of_Subsector | Subsectors Sector ID | Subsectors: 97 categories Code list iv | Type of element: common Datatype: integer | |

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|----|------------------------|--|---|--|--|
| | | | | Size: 2 | |
| 7. | Data_Collection_Method | Method of data collection | Codes elements as defined in codelist (ii): "Field measurement" and "Emission factor" | Type of element: common Datatype: integer Size: 3 | |
| 8. | Remarks | Remarks, comments or explanatory notes (free text) | | Type of element: common Datatype: Blob Max. size: 4096 | |

Data table 6.2.3: Polycyclic aromatic hydrocarbons (PAH) load released from industrial installations to the Mediterranean marine environment

| | Column name | Column definition | Methodology | Data specifications | Equivalent in WISE if exist |
|----|-----------------------|---|---|---|-----------------------------|
| 1. | Country_Code | Country codes as defined in the codelist | ISO 3166-I-alpha-3, Codes elements as defined in codelist (i) | Type of element: common Datatype: integer Size: 3 | |
| 2. | Administrative_Region | Administrative regions located in drainage basins that outflow into the Mediterranean. Administrative regions as defined in the codelist | List of regions from NBB info system | Type of element: common Datatype:-integer Min. size: 3 Max. size: 4 | |
| 3. | Year_H2020 | Year for which data is available | Use the format YYYY | Type of element: common Datatype: date Min. size: 4 Max. size: 4 Min. value: 2003 Max. value: Today() function | |
| 4. | PAH | Total quantity of released polycyclic aromatic hydrocarbons | Total PAH load as of the reference year (Year_H2020) | Type of element: common Datatype: decimal Decimal precision: 2 Unit: kg per year Min. size: 3 Max. size: 9 Min. value: 1.00 Max. value: 1,000,000.00 | |
| 5. | ID_of_Sectors | Industrial Sector ID | Sectors according to LBS Protocol 30 | Type of element: common | |

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|----|------------------------|--|---|--|--|
| | | | categories; Code list iii | Datatype: integer Size: 2 | |
| 6. | ID_of_Subsector | Subsectors Sector ID | Subsectors: 97 categories Code list iv | Type of element: common Datatype: integer Size: 2 | |
| 7. | Data_Collection_Method | Method of data collection | Codes elements as defined in codelist (ii): " <i>Field measurement</i> " and " <i>Emission factor</i> " | Type of element: common Datatype: integer Size: 3 | |
| 8. | Remarks | Remarks, comments or explanatory notes (free text) | | Type of element: common Datatype: Blob Max. size: 4096 | |

Data table 6.2.4: Volatile organic compounds (VOC) load released from industrial installations to the Mediterranean marine environment

| | Column name | Column definition | Methodology | Data specifications | Equivalent in WISE if exist |
|----|-----------------------|---|---|---|-----------------------------|
| 1. | Country_Code | Country codes as defined in the codelist | ISO 3166-I-alpha-3, Codes elements as defined in codelist (i) | Type of element: common Datatype: integer Size: 3 | |
| 2. | Administrative_Region | Administrative regions located in drainage basins that outflow into the Mediterranean. Administrative regions as defined in the codelist | List of regions from NBB info system | Type of element: common Datatype:-integer Min. size: 3 Max. size: 4 | |
| 3. | Year_H2020 | Year for which data is available | Use the format YYYY | Type of element: common Datatype: date Min. size: 4 Max. size: 4 Min. value: 2003 Max. value: Today() function | |
| 4. | VOC | Total quantity of released Volatile Organic Compounds | Total VOC load as of the reference year (Year_H2020) | Type of element: common Datatype: decimal Decimal precision: 2 Unit: kg per year Min. size: 3 | |

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| | | | | Max. size: 9 Min. value: 1.00 Max. value: 1,000,000.00 | |
| 5. | ID_of_Sectors | Industrial Sector ID | Sectors according to LBS Protocol 30 categories; Code list iii | Type of element: common Datatype: integer Size: 2 | |
| 6. | ID_of_Subsector | Subsectors Sector ID | Subsectors: 97 categories Code list iv | Type of element: common Datatype: integer Size: 2 | |
| 7. | Data_Collection_Method | Method of data collection | Codes elements as defined in codelist (ii): " <i>Field measurement</i> " and " <i>Emission factor</i> " | Type of element: common Datatype: integer Size: 3 | |
| 8. | Remarks | Remarks, comments or explanatory notes (free text) | | Type of element: common Datatype: Blob Max. size: 4096 | |

IND 6.3: Industrial hazardous waste disposed in environmentally sound manner

Dataset definition

| | |
|--------------------------------|--|
| Sub-indicators | 6.3.1) Total quantity of generated hazardous waste from industrial installations. 6.3.2) Quantity of industrial hazardous waste disposed in environmentally sound manner relative to total quantity of generated hazardous waste from industrial installations. |
| Key words | Hazardous waste, industrial installations, environmentally sound manner |
| Spatial coverage | National level which is selecting all administrative regions of the whole Mediterranean sea watershed as defined in section 3.1 of the “Updated guidelines to assess national budget of pollutants (NBB)” [UNEP(DEPI)/MED WG. 404/4]. |
| Dataset relevance | This indicator reflects the provisions of the Strategic Action Programme (SAP-MED) and the legally binding requirements in relevant regional plans which call for proper handling, storage and sound disposal of hazardous industrial waste. It also addresses the legal obligations of the Basel and Stockholm Conventions with regards to reduction of transboundary movement of hazardous waste and chemicals; the minimization and prevention of hazardous waste generation; and the availability of disposal facilities for the environmentally sound management of stock piles of chemicals and hazardous waste. This indicator is referenced by the IMAP, NAPs, MSSD and SDG. |
| Parameters | Total quantity of generated industrial hazardous waste, quantity of industrial hazardous waste disposed in environmentally sound manner, imported hazardous waste, exported hazardous waste, stockpiled hazardous waste. |
| Methodology for obtaining data | Delivered by country |
| Planned update frequency | Every 2 years |

Overview of data tables

| Data table | Name | Definition | Short description |
|------------|--|---|---|
| 6.3.1 | Total quantity of generated hazardous waste from industrial installations | Hazardous waste consists of the categories featuring on the list included in Decisions IG. 19/8 and IG. 20/8.3, Annex I of the Hazardous Waste Protocol, and in Annex I of the Basel Convention which are generated from industrial installations or facilities Industrial installations are facilities intended for use in the manufacture or processing of products involving systematic labor or habitual employment. It consists of a fixed or semi-fixed location of a complete system or a self-contained unit, with its accompanying assemblies, accessories and parts. | Quantity of generated hazardous waste (tonnes/year) |

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| Data table | Name | Definition | Short description |
|------------|--|---|---|
| 6.3.2 | Quantity of industrial hazardous waste disposed in environmentally sound manner relative to total quantity of generated hazardous waste from industrial installations | <p>Disposal of waste means operations which do not lead to the possibility of resource recovery, recycling, reclamation, direct re-use or alternative uses of hazardous waste as defined in Annex IV(A) of the Basel Convention.</p> <p>Environmentally sound manner means taking all practical steps to ensure that wastes are collected, transported, and disposed of (including after-care of disposal sites) in a manner which will protect human health and the environment against the adverse effects which may result from such wastes [UNEP(DEPI)/MED IG. 20/8 and Basel Convention (Article 2:8)]. For POPs, this means disposed of in such a way that the persistent organic pollutant content is destroyed or irreversibly transformed so that they do not exhibit the characteristics of persistent organic pollutants, or otherwise disposed of in an environmentally sound manner when destruction or irreversible transformation does not represent the environmentally preferable option, or the persistent organic pollutant content is low, taking into account international rules, standards, and guidelines and relevant global and regional regimes governing the management of hazardous waste and the Basel Convention.</p> <p>Industrial hazardous waste disposed in environmentally sound manner is computed based on the following equation:</p> $D = Q + I - E - S$ <p>where:</p> <ul style="list-style-type: none"> D = disposed quantity of industrial hazardous waste in environmentally sound manner. Q = total generated quantity of industrial hazardous waste. I = imported quantity of hazardous waste for environmentally sound disposal. E = exported quantity of hazardous waste for environmentally sound disposal. S = stockpiled quantity of hazardous stored on site under controlled or uncontrolled conditions. | Quantity of industrial hazardous waste disposed in environmentally sound manner (tonnes/year) |

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Data table 6.3.1: Total quantity of generated hazardous waste from industrial installations

| | Column name | Column definition | Methodology | Data specifications | Equivalent in WISE if exist |
|----|--|---|--|--|-----------------------------|
| 1. | Country_Code | Country codes as defined in the codelist | ISO 3166-I-alpha-3, Codes elements as defined in codelist (i) | Type of element: common Datatype: integer Size: 3 | |
| 2. | Administrative_Region (National Level) | National Level. All Administrative regions of the country (national level) located in drainage basins that outflow into the Mediterranean. Administrative regions as defined in the codelist. | List of admin regions from NBB info system. Report at national level, or alternatively select all regions. | Type of element: common Datatype: integer Min. size: 3 Max. size: 4 | National level |
| 3. | Year_H2020 | Year for which data is available | Use the format YYYY | Type of element: common Datatype: date Min. size: 4 Max. size: 4 Min. value: 2003 Max. value: Today() function | |
| 4. | Generated hazardous waste | Generated industrial hazardous waste at national level | Total quantity of generated hazardous waste from individual industrial installations as of the reference year (Year_H2020) | Type of element: common Datatype: decimal Decimal precision: 2 Unit: metric tonnes per year Min. size: 3 Max. size: 10 Min. value: 1.00 Max. value: 10,000,000.00 | |
| 5. | ID_of_Sectors | Industrial Sector ID | Sectors according to LBS Protocol 30 categories; Code list iii | Type of element: common Datatype: integer Size: 2 | |
| 6. | ID_of_Subsector | Subsectors Sector ID | Subsectors: 97 categories Code list iv | Type of element: common Datatype: integer Size: 2 | |

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|----|------------------------|--|--|--|--|
| 7. | Data_Collection_Method | Method of data collection | Codes elements as defined in codelist (ii): “ <i>National inventories</i> ” and “ <i>Compiled official reports</i> ” | Type of element: common Datatype: Integer Size: 3 | |
| 8. | Remarks | Remarks, comments or explanatory notes (free text) | | Type of element: common Datatype: Blob Max. size: 4096 | |

Data table 6.3.2: Quantity of industrial hazardous waste disposed in environmentally sound manner relative to total quantity of generated hazardous waste from industrial installations

| | Column name | Column definition | Methodology | Data specifications | Equivalent in WISE if exist |
|----|--|---|--|---|-----------------------------|
| 1. | Country_Code | Country codes as defined in the codelist | ISO 3166-I-alpha-3, Codes elements as defined in codelist (i) | Type of element: common Datatype: integer Size: 3 | |
| 2 | Administrative_Region (National Level) | National level. All Administrative regions of the country (national level) located in drainage basins that outflow into the Mediterranean. Administrative regions as defined in the codelist. | Report at national level, or alternatively select all regions. | Type of element: common Datatype:-integer Min. size: 3 Max. size: 4 | National level |
| 3. | Year_H2020 | Year for which data is available | Use the format YYYY | Type of element: common Datatype: date Min. size: 4 Max. size: 4 Min. value: 2003 Max. value: Today() function | |

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| | | | | | |
|----|---|---|---|--|--|
| 4. | Generated hazardous waste | Total quantity of generated industrial hazardous waste | Total reported quantity of generated hazardous waste from individual industrial installations as of the reference year (Year_H2020) | Type of element: common Datatype: decimal Decimal precision: 2 Unit: metric tonnes per year Min. size: 3 Max. size: 10 Min. value: 1.00 Max. value: 10,000,000.00 | |
| 5. | Imported hazardous waste (Importned_HW) | Total imported quantity of hazardous waste for environmentally sound disposal | Total reported quantity of imported industrial hazardous waste into the country as of the reference year (Year_H2020) | Type of element: common Datatype: decimal Decimal precision: 2 Unit: metric tonnes per year Min. size: 3 Max. size: 10 Min. value: 1.00 Max. value: 10,000,000.00 | |
| 6. | Exported hazardous waste (Exported_HW) | Total exported quantity of hazardous waste for environmentally sound disposal | Total reported quantity of exported industrial hazardous waste out of the country as of the reference year (Year_H2020) | Type of element: common Datatype: decimal Decimal precision: 2 Unit: metric tonnes per year Min. size: 3 Max. size: 10 Min. value: 1.00 Max. value: 10,000,000.00 | |
| 7. | Stockpiled hazardous waste (Stokpiled_HW) | Total stockpiled quantity of hazardous stored on site under controlled or uncontrolled conditions | Total reported quantity of stockpiled industrial hazardous waste from individual industrial installations as of the reference year (Year_H2020) | Type of element: common Datatype: decimal Decimal precision: 2 Unit: metric tonnes per year Min. size: 3 Max. size: 10 Min. value: 1.00 Max. value: 10,000,000.00 | |
| 8. | Disposed hazardous waste (Deposited_HW) | Total disposed quantity of industrial hazardous | The disposed quantity of hazardous industrial waste in environmentally | Type of element: common Datatype: decimal | |

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| | | | | | |
|-----|------------------------|--|---|---|--|
| | | waste in environmentally sound manner | <p>sound manner as of the reference year (Year_H2020) is computed based on the following equation: $D = Q + I - E - S$ where: D = disposed quantity of industrial hazardous waste in environmentally sound manner. Q = total generated quantity of industrial hazardous waste. I = imported quantity of hazardous waste for environmentally sound disposal. E = exported quantity of hazardous waste for environmentally sound disposal. S = stockpiled quantity of hazardous stored on site under controlled or uncontrolled conditions.</p> | <p>Decimal precision: 2 Unit: metric tonnes per year Min. size: 3 Max. size: 10 Min. value: 1.00 Max. value: 10,000,000.00</p> | |
| 9. | Data_Collection_Method | Method of data collection | <p>Codes elements as defined in codelist (ii i): "<i>National inventories</i>" and "<i>Compiled official reports</i>"</p> | <p>Type of element: common Datatype: integer Size: 3</p> | |
| 10. | Remarks | Remarks, comments or explanatory notes (free text) | | <p>Type of element: common Datatype: Blob Max. size: 4096</p> | |

IND 6.4: Compliance measures aiming at the reduction and/or elimination of pollutants generated by industrial sectors

Dataset definition

| | |
|--------------------------------|--|
| Sub-indicators | 6.4.1) Number of industrial installations reporting periodically loads of pollutants discharged to the marine and coastal environments relative to the total number of industrial installations. 6.4.2) Number of environmental inspections carried out by enforcement authorities in which industrial installations were found to be in breach of laws and regulations relative to the total number of executed inspections. 6.4.3) Number of eliminated hotspots identified in the updated NAPs relative to the 2001 and 2015 baselines. |
| Key words | Reporting loads of pollutants, environmental inspections, hotspots |
| Spatial coverage | Administrative regions of the whole Mediterranean sea watershed as defined in section 3.1 of the “Updated guidelines to assess national budget of pollutants (NBB)” [UNEP(DEPI)/MED WG. 404/4]. |
| Dataset relevance | This indicator is referenced in the Countries’ updated NAPs. It is in line with the compliance requirements of the Regional plans on the reduction of BOD, elimination and phasing out of POPs and mercury. This indicator also suggests whether the Country in question possesses the institutional structures necessary to enforce its adopted legal requirements. It reflects presence of trained and competent personnel in its institutions to carry out inspections; apply sanctions and enforce decisions. |
| Parameters | Number of industrial installations reporting periodically loads of pollutants, Number of environmental inspections carried out by enforcement authorities, and Number of eliminated hotspots. |
| Methodology for obtaining data | Delivered by country |
| Planned update frequency | Every 2 years |

Overview of data tables

| Data table | Name | Definition | Short description |
|-------------------|---|--|--|
| 6.4.1 | Number of industrial installations reporting periodically loads of pollutants discharged to the marine and coastal environments relative to the total number of industrial installations | Industrial installations are facilities intended for use in the manufacture or processing of products involving systematic labor or habitual employment. It consists of a fixed or semi-fixed location of a complete system or a self-contained unit, with its accompanying assemblies, accessories and parts | Number of reporting industrial installations |
| 6.4.2 | Number of environmental inspections carried out by enforcement authorities in which industrial installations were found to be in | Environmental inspection refers to a proactive (planned and routine) process that involves collecting information to make an assessment of a duty holder’s current level of compliance, by comparing their activities to the legal requirements and benchmark standards | Number of environmental inspections |

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| Data table | Name | Definition | Short description |
|-------------------|---|---|-------------------------------|
| | breach of laws and regulations relative to the total number of executed inspections | relevant to the activities in question. | |
| 6.4.3 | Number of eliminated hotspots identified in the updated NAPs relative to the 2001 and 2015 baselines | <p>Hotspots are defined as:</p> <ul style="list-style-type: none"> a) Point sources on the coast of the Mediterranean Sea which potentially affect human health, ecosystems, biodiversity, sustainability or economy in a significant manner. They are the main points where high levels of pollution loads originating from domestic or industrial sources are being discharged; b) Coastal areas where the coastal marine environment is subject to pollution from one or more point or diffused sources on the coast of the Mediterranean which potentially affect human health in a significant manner, ecosystems, biodiversity, sustainability or economy. | Number of eliminated hotspots |

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Data table 6.4.1: Number of industrial installations reporting periodically loads of pollutants discharged to the marine and coastal environments relative to the total number of industrial installations

| | Column name | Column definition | Methodology | Data specifications | Equivalent in WISE if exist |
|----|---|---|---|---|-----------------------------|
| 1. | Country_Code | Country codes as defined in the codelist | ISO 3166-I-alpha-3, Codes elements as defined in codelist (i) | Type of element: common Datatype: integer Size: 3 | |
| 2. | Administrative_Region | Administrative regions located in drainage basins that outflow into the Mediterranean. Administrative regions as defined in the codelist | List of admin regions from NBB info system | Type of element: common Datatype: integer Min. size: 3 Max. size: 4 | |
| 3. | Year_H2020 | Year for which data is available | Use the format YYYY | Type of element: common Datatype: date Min. size: 4 Max. size: 4 Min. value: 2003 Max. value: Today() function | |
| 4. | Number of reporting industrial installations | Number of records of industries providing data on discharges and emissions released by their industrial processes | Total number of industrial installations which reported pollution loads as of the reference year (Year_H2020) | Type of element: common Datatype: integer Unit: number of units Min. size: 1 Max. size: 7 Min. value: 1 Max. value: 1,000,000 | |
| 5. | Total number of industrial installations required to report | Total number of industrial installations required to provide data on discharges and emissions released by their industrial processes | Total number of industrial installations required to report pollution loads as of the reference year (Year_H2020) | Type of element: common Datatype: integer Unit: number of units Min. size: 1 Max. size: 7 Min. value: 1 Max. value: 1,000,000 | |
| 6. | ID_of_Sectors | Industrial Sector ID | Sectors according to LBS Protocol 30 | Type of element: common | |

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| | | | | | |
|----|------------------------|--|--|--|--|
| | | | categories; Code list iii | Datatype: integer Size: 2 | |
| 7. | ID_of_Subsector | Subsectors Sector ID | Subsectors: 97 categories Code list iv | Type of element: common Datatype: integer Size: 2 | |
| 8. | Data_Collection_Method | Method of data collection | Codes elements as defined in codelist (ii): <i>"Compiled official records"</i> | Type of element: common Datatype: integer Size: 3 | |
| 9. | Remarks | Remarks, comments or explanatory notes (free text) | | Type of element: common Datatype: Blob Max. size: 4096 | |

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Data table 6.4.2: Number of environmental inspections carried out by enforcement authorities in which industrial installations were found to be in breach of laws and regulations relative to the total number of executed inspections

| | Column name | Column definition | Methodology | Data specifications | Equivalent in WISE if exist |
|----|---|---|---|---|-----------------------------|
| 1. | Country_Code | Country codes as defined in the codelist | ISO 3166-I-alpha-3, Codes elements as defined in codelist (i) | Type of element: common Datatype: integer Size: 3 | |
| 2. | Administrative_Region | Administrative regions located in drainage basins that outflow into the Mediterranean. Administrative regions as defined in the codelist | List of admin regions from NBB info system | Type of element: common Datatype: integer Min. size: 3 Max. size: 4 | |
| 3. | Year_H2020 | Year for which data is available | Use the format YYYY | Type of element: common Datatype: date Min. size: 4 Max. size: 4 Min. value: 2003 Max. value: Today() function | |
| 4. | Number of environmental inspections in breach of laws and regulations | Number of records of environmental inspections carried out by enforcement authorities in which industrial installations were found to be in breach of laws and regulations in a single year | Total number of environmental inspections in breach of laws and regulations as of the reference year (Year_H2020) | Type of element: common Datatype: integer Unit: number of units Min. size: 1 Max. size: 7 Min. value: 1 Max. value: 1,000,000 | |
| 5. | Total number of environmental inspections | Total number of executed inspections carried out by enforcement authorities in a single year | Total number of carried out environmental inspections as of the reference year (Year_H2020) | Type of element: common Datatype: integer Unit: number of units Min. size: 1 Max. size: 7 Min. value: 1 Max. value: 1,000,000 | |

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| | | | | | |
|----|------------------------|--|---|--|--|
| 6. | ID_of_Sectors | Industrial Sector ID | Sectors according to LBS Protocol 30 categories; Code list iv | Type of element: common Datatype: integer Size: 2 | |
| 7. | ID_of_Subsector | Subsectors Sector ID | Subsectors: 97 categories Code list v | Type of element: common Datatype: integer Size: 2 | |
| 8. | Data_Collection_Method | Method of data collection | Codes elements as defined in codelist (iii): " <i>Compiled official records</i> " | Type of element: common Datatype: integer Size: 3 | |
| 9. | Remarks | Remarks, comments or explanatory notes (free text) | | Type of element: common Datatype: Blob Max. size: 4096 | |

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Data table 6.4.3: Number of eliminated hotspots identified in the updated NAPs relative to the 2001 and 2015 baselines

| | Column name | Column definition | Methodology | Data specifications | Equivalent in WISE if exist |
|----|---|---|---|--|-----------------------------|
| 1. | Country_Code | Country codes as defined in the codelist | ISO 3166-I-alpha-3, Codes elements as defined in codelist (i) | Type of element: common Datatype: integer Size: 3 | |
| 2. | Year_H2020 | Year for which data is available | Use the format YYYY | Type of element: common Datatype: date Min. size: 4 Max. size: 4 Min. value: 2003 Max. value: Today() function | |
| 3. | Number of eliminated hotspots | Number of eliminated hotspots from the list identified in the updated NAP of 2015 | Number of eliminated hotspots to date as of the reference year (Year_H2020) | Type of element: common Datatype: integer Unit: number of units Min. size: 1 Max. size: 4 Min. value: 0 Max. value: 1,000 | |
| 4. | Total number of identified hotspots in 2001 | Total number of hotspots identified in 2001 | Total number of hotspots as reported in 2001 | Type of element: common Datatype: integer Unit: number of units Min. size: 1 Max. size: 4 Min. value: 0 Max. value: 1,000 | |
| 5. | Total number of identified hotspots in 2015 | Total number of hotspots identified in the 2015 | Number of hotspots as reported in the updated NAPs of 2015 | Type of element: common Datatype: integer Unit: number of hotspots Min. size: 1 Max. size: 4 Min. value: 0 Max. value: 1,000 | |
| 6. | Data_Collection_Method | Method of data collection | Codes elements as defined in | Type of element: common | |

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| | | | | | |
|----|---------|--|--|--|--|
| | | | codelist (iii): " <i>Compiled official records</i> " | Datatype: integer Size: 3 | |
| 7. | Remarks | Remarks, comments or explanatory notes (free text) | | Type of element: common Datatype: Blob Max. size: 4096 | |

Annex 1: Code lists

i. List of country codes

ISO 3166-1-alpha-2 code

http://www.iso.org/iso/home/standards/country_codes/country_names_and_code_elements.htm

| Value | name | Short name |
|-------|------------------------|------------|
| 8 | Albania | ALB |
| 12 | Algeria | DZA |
| 70 | Bosnia and Herzegovina | BIH |
| 818 | Egypt | EGY |
| 376 | Israel | ISR |
| 400 | Jordan | JOR |
| 422 | Lebanon | LBN |
| 434 | Libya | LBY |
| 499 | Montenegro | MNE |
| 504 | Morocco | MAR |
| 275 | Palestine, State of | PSE |
| 788 | Tunisia | TUN |
| 792 | Turkey | TUR |

ii. Method of data collection code list

| Value | Definition | Short description |
|-------|--|---------------------------|
| 100 | Field measurement method | Field measurement |
| 200 | Emission factor methods | Emission factor |
| 300 | National inventories for management of hazardous waste compiled by official public agencies | National inventories |
| 400 | Official reports compiled by environmental authorities in compliance with the obligations of the Basel and Stockholm conventions | Compiled official reports |
| 500 | Records compiled by environmental agencies | Compiled official records |

iii. Code List of Sector

| sector_id | sector_name |
|-----------|-------------------------------|
| 1 | Manufacture of cement |
| 2 | Treatment of urban wastewater |
| 3 | Transport |
| 4 | Farming of animals |

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| | |
|----|--|
| 5 | Food packing |
| 6 | Port services |
| 7 | Manufacture of other organic chemicals |
| 8 | Agriculture |
| 9 | Manufacture of metals |
| 10 | Manufacture of refined petroleum products |
| 11 | Production of energy |
| 12 | Tanning and dressing of leather |
| 13 | Aquaculture |
| 14 | Management of urban solid waste |
| 15 | Manufacture of pharmaceuticals |
| 16 | Manufacture of paper |
| 17 | Manufacture of fertilizers |
| 18 | Manufacture of other inorganic chemicals |
| 19 | Manufacture of textiles |
| 20 | Tourism |
| 21 | Building and repairing of ships and boats |
| 23 | Other |
| 24 | Treatment and storage of hazardous wastes |
| 25 | Waste incineration and management of its residues |
| 26 | Waste management activities |
| 27 | Manufacture and formulation of biocides |
| 28 | Mining and quarrying |
| 29 | Recycling activities |
| 30 | Manufacture of electronics products |
| 31 | Treatment of sewage sludge |
| 32 | Factories that cause physical changes to the environment |

iv. Code List of Subsectors

| subsector_id | subsector_name | sector_sector_id |
|--------------|---|------------------|
| 1 | Growing of cereals (wheat, rice, maize, soyabeans, other) | 8 |
| 2 | Growing of fruit and vegetables | 8 |
| 3 | Horticultural specialities, nurseries | 8 |
| 4 | Industrial crops (cotton, tobacco, sugar cane, sugar beet, potatoes, other) | 8 |
| 5 | Manufacture of wines | 8 |
| 6 | Fish breeding | 13 |
| 7 | Fish processing | 13 |
| 8 | Drydocks | 21 |

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| | | |
|----|--|----|
| 9 | Shipyards | 21 |
| 10 | Seawater desalination plants | 32 |
| 11 | Farming of animals (cattle, sheep, swine, poultry) and slaughterhouses | 4 |
| 12 | Farming of special animals (rabbits, goats, horses, asses, mules and hinnies, other) | 4 |
| 13 | Animal feeds | 5 |
| 14 | Animal raw materials, Vegetable raw materials | 5 |
| 15 | Dairy industry | 5 |
| 16 | Manufacture of beer | 5 |
| 17 | Manufacture of non-alcoholic beverages | 5 |
| 18 | Manufacture of olive oil | 5 |
| 19 | Manufacture of other vegetable oils (other than olive oil) | 5 |
| 20 | Manufacture of sugar beet | 5 |
| 21 | Manufacture of wines and spirits | 5 |
| 22 | Other prepared foods | 5 |
| 23 | Preserving fruit and vegetables | 5 |
| 24 | Waste dumps | 14 |
| 25 | Formulation of pesticides | 27 |
| 26 | Synthesis of phytosanitary products | 27 |
| 27 | Manufacture of cement | 1 |
| 28 | Manufacture of lime and plaster | 1 |
| 29 | Manufacture of electric machines and appliances (condensers, transformers) | 30 |
| 30 | Manufacture of integrated circuits | 30 |
| 31 | Manufacture of radio, television and communications equipment | 30 |
| 32 | Nitrogenous fertilizers | 17 |
| 33 | Phosphate fertilizers and phosphoric acid | 17 |
| 34 | Casting of grey iron | 9 |
| 35 | Casting of other non-ferrous metals | 9 |
| 36 | Casting of steel | 9 |
| 37 | Electroplating | 9 |
| 38 | First-stage aluminium smelting | 9 |
| 39 | First-stage copper smelting | 9 |
| 40 | Manufacture of accumulators | 9 |
| 41 | Manufacture of basic iron and steel | 9 |
| 42 | Manufacture of lead oxides and lead-based colouring matter | 9 |
| 43 | Manufacture of other non-ferrous metals | 9 |
| 44 | Manufacture of zinc or tin | 9 |
| 45 | Second-stage aluminium smelting | 9 |
| 46 | Second-stage copper smelting | 9 |
| 47 | Second-stage lead smelting | 9 |

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| | | |
|----|--|----|
| 48 | Industrial gases | 18 |
| 49 | Manufacture of ceramic products | 18 |
| 50 | Manufacture of glass and glass products | 18 |
| 51 | Other (activated carbon, composed of Al, Ba, Ca, Ni, –) | 18 |
| 52 | Synthesis of pigments | 18 |
| 53 | Manufacture of explosives, glues, gelatine, essential oils | 7 |
| 54 | Other chemicals | 7 |
| 55 | Paints and varnishes | 7 |
| 56 | Plastics, rubber, synthetic resins | 7 |
| 57 | Polyethylene tetraphtalate | 7 |
| 58 | Polyvinyl chloride | 7 |
| 59 | Synthesis of pigments | 7 |
| 60 | Manufacture of articles of paper or paperboard | 16 |
| 61 | Manufacture of paper and pulp | 16 |
| 62 | Printing activities | 16 |
| 63 | Cosmetics and perfumes | 15 |
| 64 | Pharmaceuticals | 15 |
| 65 | Soaps, detergents and sanitary preparations | 15 |
| 66 | Manufacture of petrochemicals | 10 |
| 67 | Manufacture of refined petroleum products | 10 |
| 68 | Transport and marketing of petroleum products | 10 |
| 69 | Manufacture and dyeing of textiles | 19 |
| 70 | Manufacture of clothing and other finished products made of fabric | 19 |
| 71 | Extraction of petroleum and gas | 28 |
| 72 | Metal mining | 28 |
| 73 | Installations for melting mineral substances | 23 |
| 74 | Manufacture of Wood | 23 |
| 75 | Other | 23 |
| 76 | Gasoline Loading | 6 |
| 77 | Port handling (cargo) | 6 |
| 78 | Combustion of heating oil | 11 |
| 79 | Combustion of lignite | 11 |
| 80 | Gaz production | 11 |
| 81 | Recycling of lubricating oils | 29 |
| 82 | Recycling of metal waste and scrap | 29 |
| 83 | Recycling of non-metal waste and scrap (paper, glass) | 29 |
| 84 | Tanning and dressing of leather | 12 |
| 85 | Hotel, food and beverage services | 20 |
| 86 | Recreational activities | 20 |

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| | | |
|----|---|----|
| 87 | Manufacture of aircraft and spacecraft | 3 |
| 88 | Manufacture of motor vehicles | 3 |
| 89 | Manufacture of other transport equipment | 3 |
| 90 | Rail transport | 3 |
| 91 | Urban road transport (automobiles and buses) | 3 |
| 92 | Water transport (freight, passengers) | 3 |
| 93 | Technical centres for landfill and storage | 24 |
| 94 | Compost production | 31 |
| 95 | Industrial wastewater treatment plant | 2 |
| 96 | Treatment plants | 2 |
| 97 | Urban waste incineration plants | 25 |
| 98 | Refuse collection, depollution and similar activities | 26 |
| 99 | Lead Alkyl | 7 |

v. Heavy Metal Code list

| ID | Name of the heavy metal |
|----|-------------------------|
| Hg | Mercury |
| Cd | Cadmium |
| Pb | Lead |
| Zn | Zinc |
| Cu | Copper |
| Cr | Chromium |

ANNEX 2: MEDITERRANEAN REGIONS

| Country | Region |
|--------------------|--------------------|
| Albania | Peqini |
| Albania | Vlora |
| Albania | Saranda |
| Albania | Delvina |
| Albania | Kavaja |
| Albania | Fieri |
| Albania | Kruja |
| Albania | Durres |
| Albania | Kurbini |
| Albania | Lushnja |
| Albania | Mallakastra |
| Albania | Elbasan |
| Albania | Shkodra |
| Albania | Lezha |
| Albania | Tirana |
| Algeria | El Tarf |
| Algeria | Tlemcen |
| Algeria | Ain Temouchent |
| Algeria | Oran |
| Algeria | Mostaganem |
| Algeria | Chlef |
| Algeria | Tipaza |
| Algeria | Alger |
| Algeria | Boumerdes |
| Algeria | Tizi Ouzou |
| Algeria | Bejaia |
| Algeria | Jijel |
| Algeria | Skikda |
| Algeria | Annaba |
| Bosnia Herzegovina | Costal Area - Neum |
| Bosnia Herzegovina | Trebisnjica |
| Bosnia Herzegovina | Cetina |
| Bosnia Herzegovina | Neretva |
| Croatia | Primorsko-Goranska |

| | |
|---------|----------------------------|
| Croatia | Zadarska |
| Croatia | Licko-Senjska |
| Croatia | Sibensko-Kninska |
| Croatia | Istarska |
| Croatia | Dubrovacko-Neretvanska |
| Croatia | Splitsko-Dalmatinska |
| Cyprus | Cyprus |
| Egypt | Alexandria |
| France | Champagne-Ardenne |
| France | Franche-Comte |
| France | Herault |
| France | Alpes maritimes |
| France | Pyrenees orientales |
| France | Aude |
| France | Bourgogne |
| France | Provence-Alpes-Cote d'Azur |
| France | Gard |
| France | Corse |
| France | Bouches du Rhone |
| France | Rhone-Alpes |
| Greece | Aegean Islands |
| Greece | West Macedonia |
| Greece | West Continental Greece |
| Greece | West Peloponnes |
| Greece | North Peloponnes |
| Greece | Attica |
| Greece | East Peloponnes |
| Greece | Epirus |
| Greece | Thrace |
| Greece | East Macedonia |
| Greece | East Continental Greece |
| Greece | Crete |
| Greece | Central Macedonia |
| Greece | Thessalia |

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| | |
|------------|-----------------|
| Israel | Israel |
| Italy | Puglia |
| Italy | Umbria |
| Italy | Veneto |
| Italy | Toscana |
| Italy | Lombardia |
| Italy | Valle d Aosta |
| Italy | Liguria |
| Italy | Friuli |
| Italy | Molise |
| Italy | Marche |
| Italy | Sardegna |
| Italy | Trentino |
| Italy | Emilia Romagna |
| Italy | Abruzzo |
| Italy | Calabria |
| Italy | Piemonte |
| Italy | Basilicata |
| Italy | Lazio |
| Italy | Sicilia |
| Italy | Campania |
| Lebanon | Lebanon |
| Libya | Alnigat Alkhams |
| Libya | Sirt |
| Libya | Ajdabiya |
| Libya | Tripoli |
| Libya | Dernah |
| Libya | Azzawiya |
| Libya | Al jifarah |
| Libya | Al batnan |
| Libya | Misratah |
| Libya | Al Khums |
| Libya | Benghazi |
| Libya | Alnigat ilkamse |
| Malta | Malta |
| Montenegro | Budva |
| Montenegro | Ulcinj |

| | |
|------------|-------------|
| Montenegro | Tivat |
| Montenegro | Kotor |
| Montenegro | Herceg Novi |
| Montenegro | Bar |
| Morocco | Nador |
| Morocco | Tanger |
| Morocco | Tetouan |
| Palestine | Wadi Gaza |
| Slovenia | Slovenia |
| Spain | Barcelona |
| Spain | Alava |
| Spain | Cuenca |
| Spain | Huesca |
| Spain | Alicante |
| Spain | Albacete |
| Spain | Burgos |
| Spain | Granada |
| Spain | Valencia |
| Spain | Lleida |
| Spain | Girona |
| Spain | Malaga |
| Spain | Tarragona |
| Spain | Baleares |
| Spain | Navarra |
| Spain | Murcia |
| Spain | Zaragoza |
| Spain | Melilla |
| Spain | Rioja |
| Spain | Teruel |
| Spain | Soria |
| Spain | Cantabria |
| Spain | Cadiz |
| Spain | Almeria |
| Spain | Castellon |
| Syria | Tartous |
| Syria | Lattakia |
| Tunisia | Gabes |

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| | |
|---------|------------|
| Tunisia | Sfax |
| Tunisia | Bizerte |
| Tunisia | Mahdia |
| Tunisia | Sousse |
| Tunisia | Ariana-M |
| Tunisia | Nabeul |
| Tunisia | Ben Arous |
| Tunisia | Monastir |
| Tunisia | Medenine |
| Tunisia | Tunis |
| Turkey | Denizli |
| Turkey | Hatay |
| Turkey | Antalya |
| Turkey | Kahramanma |

| | |
|--------|-----------|
| Turkey | Isparta |
| Turkey | Manisa |
| Turkey | Mugla |
| Turkey | Usak |
| Turkey | Icel |
| Turkey | Kutahya |
| Turkey | Osmaniye |
| Turkey | Afyon |
| Turkey | Izmir |
| Turkey | Balikesir |
| Turkey | Canakkale |
| Turkey | Aydin |
| Turkey | Adana |