Please fill out the following form as accurately as possible then forward the completed and signed copy to the Department of Environmental Health and Safety (EH&S), [safety@queensu.ca](mailto:safety@queensu.ca), attention Tom Martinek. Electronic copies are preferred.

**GENERATOR DETAILS:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Generator Name: Queen’s University | | | | | | | | |
| Type of Industry / Business: Educational | | | | | | | | |
| Site Address: | | Building : | | | | Lab Room # : | | |
| Mailing Address (if different): | |  | | | | | | |
| Principal Investigator Contact: | Phone: | |  | Ext: |  | | Cell |  |
| Alternate Contact: | Phone: | |  | Ext: |  | | Cell |  |

**TDG Shipping Information:**

***For EH&S Use only***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Common Name of the Waste | |  | | |
| TDG Shipping Name | |  | | |
| Hazard Class: |  | | Packing group: |  |
| Special Instructions: | |  | | |
| The above classification was assigned based on information provided by Queen’s researchers and technicians in this chemical classification profile. The TDG classification and packing group has been assigned based on the classification and packing group of the pure constituents as listed in the Composition of Waste Table, taking into account the concentration of the constituents in the solution /mixture. Further, taken into account were the physical properties and reactivity and hazard characteristics as listed in this profile.   |  | | --- | |  | | NAME & TITLE |  |  | | --- | |  | | SIGNATURE |  |  | | --- | |  | | DATE | | | | | |

COMPOSITION OF WASTE:

|  |  |  |  |
| --- | --- | --- | --- |
| List all chemicals/compounds.  Provide Safety Data Sheet (SDS) or analytical data if available. Check box if SDS is provided. | | | |
| % | Chemicals/Compounds | % | Chemicals/Compounds |
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| Generating Process (detailed description): | | | |

PHYSICAL PROPERTIES:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Physical State: (Please check box) | | | Solid | | | | | | | | Liquid | | | | | | Gas | | | |
| Phases/Layers: (#, ie. 1, 2, 3) | | |  | | | | | | | | | | | | | | | | | |
| Liquid % |  | Sludge % | | |  | | | | Solid % | | |  | | | | Powder % | | |  | |
| Viscosity: | Low | | | | | Medium | | | | | | | | High | | | | | | |
| Pumpable: | Yes  No | | | | | | | Pourable: | | | | | Yes  No | | | | | | | |
| Colour: |  | | | | | | | | | | | | | | | | | | | |
| pH: | ≤2 | | | 2.1 - 7 | | | | | | 7.1 - 12.4 | | | | | ≥ 12.5 | | | | | NA |
| Specific Gravity: | 0.8 | | | 0.8 - 1 | | | | | | 1.1 - 1.7 | | | | | >1.7 | | | | | |
| BTU/lb: | ≤ 5000 | | | 5,000 – 10,000 | | | | | | | | | | | ≥ 10,000 | | | | | |
| Describe Odour: |  | | | | | | | | | | | | | | | | | | | |
| Odour: | Strong | | | | | | Mild | | | | | | | | | | | None | | |
| Flash Point (FP) (closed cup) & Boiling Point (BP): | FP < 22.8°C & BP <37.8°C | | | | | | FP < 22.8°C & BP>37.8°C | | | | | | | | | | | FP ≥22.9°C-<37.8° & BP N/A | | |
| FP 37.8°C - 60°C & BP N/A | | | | | | FP 60°C - 93.3°C & BP N/A | | | | | | | | | | | FP > 93.3°C & BP N/A | | |

REACTIVITY / HAZARDOUS CHARACTERISTICS

|  |  |  |  |
| --- | --- | --- | --- |
| Is this waste any of the following? (Please ensure that **at least** one box is checked) | | | |
| Explosive | Pyrophoric | Ignitable Solid | Shock Sensitive |
| Oxidizer | Air Reactive | Water Reactive | Polymerizable |
| Radioactive | Biological | Asbestos | Activated Carbon |
| Reactive Cyanide | Reactive Sulfide | Nitro Cellulose / Lacquer Dust | |
| None of the Above |  |  |  |
| Other (Please Describe) | | | |

ATTACHMENTS

Acronyms: TCLP - Toxicity characteristic leaching procedure

LEP - Leachate Extraction Procedure

PCB - Polychlorinated Biphenyls

|  |  |  |
| --- | --- | --- |
| **Please check documentation included as attachments for this waste stream:** | | |
| Profile Only | Sample | Safety Data Sheet (SDS) |
| Analysis *(if yes, please specify)* | *TCLP (Reg. 558)* | LEP (Reg. 347) |
| Other (please specify): Elements by Atomic Spectroscopy (Water), PCB Analysts |  | |

GENERATOR CERTIFICATION

As an employee and authorized representative of the Generator, I hereby certify that information contained in this profile is a complete and accurate representation of all known and/or suspected hazards of the material(s) described.

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|  |
| NAME & TITLE |

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| SIGNATURE |

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| DATE |

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| **Check the “No” box to confirm each of the hazardous constituents are below the regulatory values for Non-Hazardous waste as per Schedule 4 (Reg. 347/558). Signing of this certification does not guarantee acceptance of waste without analytical results (TCLP) to support generator knowledge of waste. If any of the below constituents are above the regulatory limits; you must check “Yes”** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| INORGANICS (METALS & ANIONS) | mg/L | Yes |  | No | **CERTIFICATION** |
| Arsenic | 2.5 |  |  |  | Based upon my knowledge of the waste and the process generating the waste, these constituents are not present in the waste above hazardous classification levels.  Signed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Title \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Barium | 100.0 |  |  |  |
| Boron | 500.0 |  |  |  |
| Cadmium | 0.5 |  |  |  |
| Chromium | 5.0 |  |  |  |
| Cyanide | 20.0 |  |  |  |
| Fluoride | 150.0 |  |  |  |
| Lead | 5.0 |  |  |  |
| Mercury | 0.1 |  |  |  |
| Nitrate + Nitrite (as Nitrogen) | 1000.0 |  |  |  |
| Selenium | 1.0 |  |  |  |
| Silver | 5 |  |  |  |
| Uranium | 10.0 |  |  |  |

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| DIOXINS & FURANS | **mg/L** | Yes |  | No | **CERTIFICATION** |
| Dioxins & Furans | 0.0000015\* |  |  |  | Based upon my knowledge of the waste and the process generating the waste, these constituents are not present in the waste above hazardous classification levels.  Signed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Title \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| \*Toxic Equivalent (TEQ) | | |  |  |
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| VOLATILE ORGANIC COMPOUNDS (VOC’S) | **Mg/L** | Yes |  | No | **CERTIFICATION** |
| Benzene | 0.5 |  |  |  | Based upon my knowledge of the waste and the process generating the waste, these constituents are not present in the waste above hazardous classification levels.  Signed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Title \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Carbon Tetrachloride | 0.5 |  |  |  |
| Chloroform | 10.0 |  |  |  |
| 1,2-Dichlorobenzene | 20.0 |  |  |  |
| 1,4-Dichlorobenzene | 0.5 |  |  |  |
| 1,2-Dichloroethane | 0.5 |  |  |  |
| 1,1-Dichloroethylene | 1.4 |  |  |  |
| Dichloromethane | 5.0 |  |  |  |
| Tetrachloroethylene | 3.0 |  |  |  |
| Trichloroethylene | 5.0 |  |  |  |
| Vinyl Chloride | 0.2 |  |  |  |

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| EXTRACTABLE ORGANICS | **Mg/L** | Yes |  | No | **CERTIFICATION** |
| Benzo(a)pyrene | 0.001 |  |  |  | Based upon my knowledge of the waste and the process generating the waste, these constituents are not present in the waste above hazardous classification levels.  Signed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Title \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Cresol | 200.0 |  |  |  |
| m-Cresol | 200.0 |  |  |  |
| o-Cresol | 200.0 |  |  |  |
| p-Cresol | 200.0 |  |  |  |
| 2,4-Dinitrotoluene | 0.13 |  |  |  |
| Methyl ethyl ketone | 200.0 |  |  |  |
| Nitrobenzene | 2.0 |  |  |  |
| Pentachlorophenol | 6.0 |  |  |  |
| Pyridine | 5.0 |  |  |  |
| 2,3,4,6-Tetrachlorophenol / (2,3,4,6-TeCP) | 10.0 |  |  |  |
| 2,4,5 – Trichlorophenol (2,4,5 – TCP) | 400.0 |  |  |  |
| 2,4,6-Trichlorophenol (2,4,6-TCP) | 0.5 |  |  |  |
| 2,4-DCP | 90.0 |  |  |  |

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| PESTICIDES & HERBICIDES | **mg/L** | Yes |  | No | **CERTIFICATION** |
| Aldicarb | 0.9 |  |  |  | Based upon my knowledge of the waste and the process generating the waste, these constituents are not present in the waste above hazardous classification levels.  Signed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Title \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Aldrin + Deldrin | 0.07 |  |  |  |
| Atrazine | 0.5 |  |  |  |
| Azinphos-methyl | 2.0 |  |  |  |
| Bendiocarb | 4.0 |  |  |  |
| Bromoxynil | 0.5 |  |  |  |
| Carbaryl / Sevin/ 1-Naphthyl-N Methy Carbamate | 9.0 |  |  |  |
| Carbofuran | 9.0 |  |  |  |
| Chlordane | 0.7 |  |  |  |
| Chlorpyrifos | 9.0 |  |  |  |  |
| Cyanazine | 1.0 |  |  |  |  |
| 2,4-D / (2,4-dichlorophenoxy) acetic acid | 10.0 |  |  |  |  |
| DDT (total isomers) | 3.0 |  |  |  |  |
| Diazanon | 2.0 |  |  |  |  |
| Dicamba | 12.0 |  |  |  |  |
| Diclofop-methyl | 0.9 |  |  |  |  |
| Dimethoate | 2.0 |  |  |  |  |
| Dinoseb | 1.0 |  |  |  |  |
| Diquat | 7.0 |  |  |  |  |
| Diuron | 15.0 |  |  |  |  |
| Endrin | 0.02 |  |  |  |  |
| Glyphosate | 28.0 |  |  |  |  |
| Heptachlor + Heptachlor Epoxide | 0.3 |  |  |  |  |
| Hexachlorobenzene | 0.13 |  |  |  |  |
| Hexachlorobutadiene | 0.5 |  |  |  |  |
| Hexachloroethane | 3.0 |  |  |  |  |
| Lindane | 0.4 |  |  |  |  |
| Malathion | 19.0 |  |  |  |  |
| Methoxychlor | 90.0 |  |  |  |  |
| Methyl Parathion | 0.7 |  |  |  |  |
| Metolachlor | 5.0 |  |  |  |  |
| Metribuzin | 8.0 |  |  |  |  |
| Paraquat | 1.0 |  |  |  |  |
| Parathion | 5.0 |  |  |  |  |
| Phorate | 0.2 |  |  |  |  |
| Picloram | 19.0 |  |  |  |  |
| Simazine | 1.0 |  |  |  |  |
| 2,4,5-TP (2,4,5-Trichlorophenoxy) priopionic acid | 1.0 |  |  |  |  |
| Temephos | 28.0 |  |  |  |  |
| Terbufos | 0.1 |  |  |  |  |
| Toxaphene | 0.5 |  |  |  |  |
| Triallate | 23.0 |  |  |  |  |
| Triafluralin | 4.5 |  |  |  |  |

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| Polychlorinated Biphenyls **(PCB’s)** | mg/L | Yes |  | No | **CERTIFICATION** |
| Polychlorinated Biphenyls | 0.3 |  |  |  | Based upon my knowledge of the waste and the process generating the waste, these constituents are not present in the waste above hazardous classification levels.  Signed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Title \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
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| **OTHER COMPOUNDS** | **mg/L** | Yes |  | No | **CERTIFICATION** |
| Nitrilotriacetic Acid (NTA) | 40.0 |  |  |  | Based upon my knowledge of the waste and the process generating the waste, these constituents are not present in the waste above hazardous classification levels.  Signed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Title \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Nitrosodiummethylamine (NDMA) | 0.0009 |  |  |  |
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