

## PART 1      GENERAL

### 1.1      REFERENCE STANDARDS

- .1      Department of Justice Canada (Jus)
  - .1      Transportation of Dangerous Goods Act, 1992 (TDG Act) 1992, (c. 34).
  - .2      Transportation of Dangerous Goods Regulations (T-19.01-SOR/2001-286).
- .2      Health Canada / Workplace Hazardous Materials Information System (WHMIS)
  - .1      Material Safety Data Sheets (MSDS).
- .3      National Research Council Canada (NRC)
  - .1      National Fire Code of Canada 2015 (NFC).
- .4      Manitoba Building Codes, Acts and Regulations.

### 1.2      DEFINITIONS

- .1      Dangerous Goods: product, substance, or organism specifically listed or meets hazard criteria established in Transportation of Dangerous Goods Regulations.
- .2      Hazardous Material: product, substance, or organism used for its original purpose; and is either dangerous goods or material that will cause adverse impact to environment or adversely affect health of persons, animals, or plant life when released into the environment.
- .3      Hazardous Waste: hazardous material no longer used for its original purpose and that is intended for recycling, treatment or disposal.

### 1.3      ACTION AND INFORMATIONAL SUBMITTALS

- .1      Submit in accordance with Section 01 33 00- Submittal Procedures.
- .2      Product Data:
  - .1      Submit manufacturer's instructions, printed product literature and data sheets for hazardous materials and include product characteristics, performance criteria, physical size, finish and limitations.
  - .2      Submit two copies of WHMIS MSDS in accordance with Section 01 35 43- Environmental Procedures and 01 35 29.06- Health and Safety Requirements to Departmental Representative for each hazardous material required prior to bringing hazardous material on site.

### 1.4      DELIVERY, STORAGE AND HANDLING

- .1      Deliver, store and handle materials in accordance with manufacturer's written instructions and Section 01 61 00- Common Product Requirements.
- .2      Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3      Transport hazardous materials and wastes in accordance with Transportation of Dangerous Goods Act, Transportation of Dangerous Goods Regulations, and applicable provincial regulations.
- .4      Storage and Handling Requirements:
  - .1      Co-ordinate storage of hazardous materials with Departmental Representative and abide by internal requirements for labelling and storage of materials and wastes.

- .2 Store and handle hazardous materials and wastes in accordance with applicable federal and provincial laws, regulations, codes, and guidelines.
- .3 Store and handle flammable and combustible materials in accordance with National Fire Code of Canada (NFC) requirements.
- .4 Keep no more than 45 litres of flammable and combustible liquids such as gasoline, kerosene and naphtha for ready use.
  - .1 Store flammable and combustible liquids in approved safety cans bearing the Underwriters' Laboratory of Canada or Factory Mutual seal of approval.
  - .2 Storage of quantities of flammable and combustible liquids exceeding 45 litres for work purposes requires the written approval of the Departmental Representative.
- .5 Transfer of flammable and combustible liquids is prohibited within buildings.
- .6 Transfer flammable and combustible liquids away from open flames or heat-producing devices.
- .7 Solvents or cleaning agents must be non-flammable or have flash point above 38 degrees C.
- .8 Store flammable and combustible waste liquids for disposal in approved containers located in safe, ventilated area. Keep quantities to minimum.
- .9 Observe smoking regulations, smoking is prohibited in areas where hazardous materials are stored, used, or handled.
- .10 Storage requirements for quantities of hazardous materials and wastes in excess of 5 kg for solids, and 5 litres for liquids:
  - .1 Store hazardous materials and wastes in closed and sealed containers.
  - .2 Label containers of hazardous materials and wastes in accordance with WHMIS.
  - .3 Store hazardous materials and wastes in containers compatible with that material or waste.
  - .4 Segregate incompatible materials and wastes.
  - .5 Ensure that different hazardous materials or hazardous wastes are stored in separate containers.
  - .6 Store hazardous materials and wastes in secure storage area with controlled access.
  - .7 Maintain clear egress from storage area.
  - .8 Store hazardous materials and wastes in location that will prevent them from spilling into environment.
  - .9 Have appropriate emergency spill response equipment available near storage area, including personal protective equipment.
  - .10 Maintain inventory of hazardous materials and wastes, including product name, quantity, and date when storage began.

## PART 2      PRODUCTS

### 2.1      MATERIALS

- .1 Description:
  - .1 Bring on site only quantities hazardous material required to perform Work.
  - .2 Maintain MSDS in proximity to where materials are being used. Communicate this location to personnel who may have contact with hazardous materials.

PART 3      EXECUTION

3.1      CLEANING

- .1      Progress Cleaning: clean in accordance with Section 01 74 11- Cleaning.
  - .1      Leave Work area clean at end of each day.
- .2      Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11- Cleaning.
- .3      Waste Management: separate waste materials for recycling in accordance with Section 01 74 21- Construction/Demolition Waste Management and Disposal.
  - .1      Dispose of hazardous waste materials in accordance with applicable federal and provincial acts, regulations, and guidelines.
  - .2      Recycle hazardous wastes for which there is approved, cost effective recycling process available.
  - .3      Send hazardous wastes to authorized hazardous waste disposal or treatment facilities.
  - .4      Burning, diluting, or mixing hazardous wastes for purpose of disposal is prohibited.
  - .5      Disposal of hazardous materials in waterways, storm or sanitary sewers, or in municipal solid waste landfills is prohibited.
  - .6      Dispose of hazardous wastes in timely fashion in accordance with applicable provincial regulations.
  - .7      Minimize generation of hazardous waste to maximum extent practicable. Take necessary precautions to avoid mixing clean and contaminated wastes.
  - .8      Identify and evaluate recycling and reclamation options as alternatives to land disposal, such as:
    - .1      Hazardous wastes recycled in manner constituting disposal.
    - .2      Hazardous waste burned for energy recovery.
    - .3      Lead-acid battery recycling.
    - .4      Hazardous wastes with economically recoverable precious metals.

END OF SPECIFICATION SECTION 02 81 01