



2024 Manitoba Community Recycling & Waste Reduction Forum

October 17, 2024

**Essential Information for Community Waste and Recycling
Workers, Managers and Planners**

**Module 5: Putting It Altogether - Planning for Used Oil
Collection and Recycling**

Safety Considerations for Used Oil Collection and Recycling



How Can Used Oil Impact Your Health?

- **Used oil is NOT the same as new oil**
 - It can contain contaminants from its use
 - It can have other material added to it such as fuel, solvent, other chemicals

The key is to avoid or minimize exposure to used oil

USED OIL MATERIAL SAFETY DATA SHEET

POTENTIAL HEALTH EFFECTS

Effects may vary depending on material composition. Typical effects may include:

INHALATION (BREATHING): High concentrations of vapor or mist may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects. Massive acute overexposure may cause rapid central nervous system depression, sudden collapse, coma, and/or death.

EYES: May cause irritation.

SKIN: May cause irritation. Product may be absorbed through the skin and cause harm as noted under **INHALATION (BREATHING)**.

INGESTION (SWALLOWING): May be harmful or fatal if swallowed. May cause throat irritation, nausea, vomiting, and central nervous system effects as noted under **INHALATION (BREATHING)**. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

How Can Used Oil Impact Your Health and the Environment?

- **We can be exposed to used oil through:**
 - **Ingestion - accidentally getting oil on food or drink and consuming it**
 - **Ingesting oil can cause stomach discomfort**
 - **Inhalation - breathing oil (or contamination) vapours, mists or fumes**
 - **Inhalation can cause throat or lung irritation, coughing or difficulty breathing**
 - **Skin or Eye contact**
 - **Contact with skin or eyes can cause irritation and redness and make existing skin conditions worse**

How Can Used Oil Impact Your Health and the Environment?

- **Used oil can impact the environment by causing soil or water contamination**
 - Spilled or leaked oil can require expensive soil remediation
 - 1 litre of oil can contaminate and make unpotable a 1,000,000 litres of water
 - As little as 50 parts per million of oil can damage sewage treatment plant operations



Personal Protective Equipment

- **The most effective way to prevent exposure to used oil is to handle it carefully and to use Personal Protective Equipment or PPE**



Personal Protective Equipment

- **The following PPE is recommended:**
 - **Chemical splash goggles to protect your eyes**
 - **Chemical resistant gloves to protect your hands and arms**
 - **A full length chemical resistant apron to protect your chest and legs and clothing**
 - **A particulate mask to protect your lungs when using dusty absorbent in the event of a leak or spill**



Personal Protective Equipment

- Your employer may require you to have other PPE such as:
 - Steel toed safety boots
 - Long work pants and long-sleeved shirts or coveralls
 - High visibility vest or clothing
 - Safety glasses
 - Ear protection

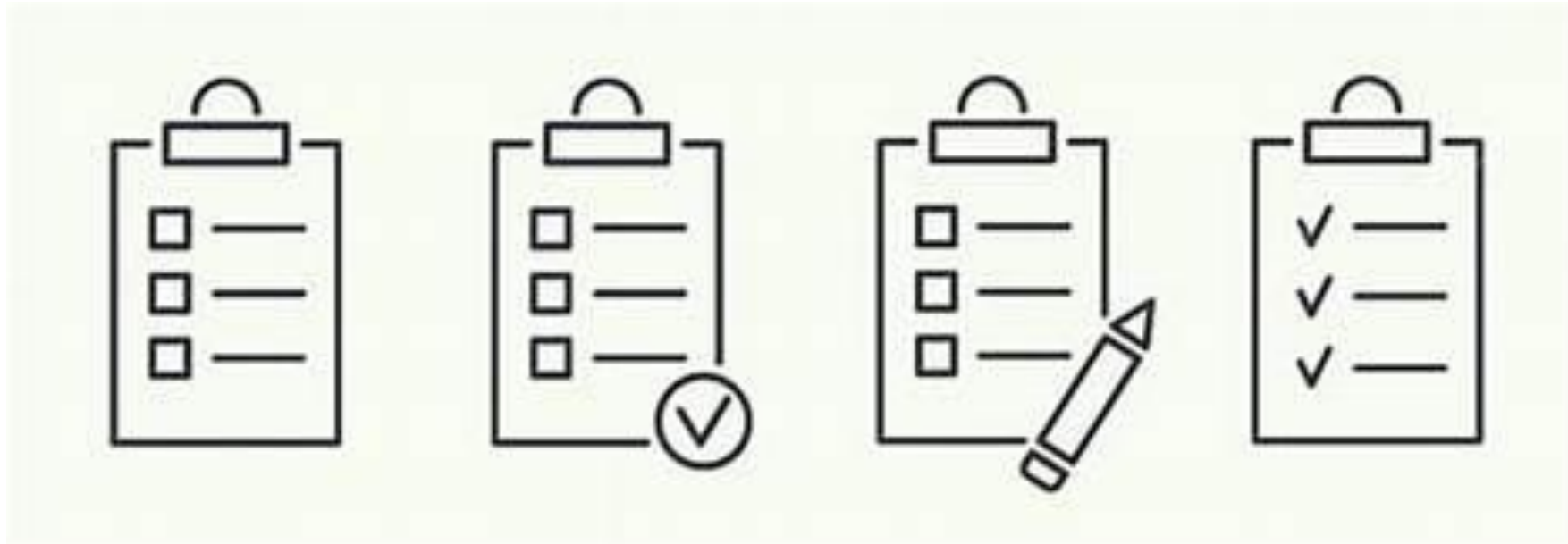


Emergency Response Equipment

- **You should also have emergency response supplies:**
 - **Absorbent to soak up oil spills**
 - **Fire extinguisher**
 - **Portable eye wash**
 - **First aid kit**
- **It is important to have training when using this equipment**
- **Other tools you should have on hand include a good shovel, broom and dustpan, and a metal garbage can with a tight-fitting lid**

Safe Work Procedures

- **Safe Work Procedures provide the basics for safely working with used oil**



Safety Considerations When Transferring Used Oil From a Small Container to a Drum or Storage Tank

Hazard Present:

- Inhaling Fumes or Vapors
- Splash into Eyes
- Splash onto Skin
- Drum Pinching Fingers or Hand
- Spill of Oil on Ground

PPE and Equipment:

- Safety Boots
- Goggles or Safety Glasses
- Rubber Gloves
- Apron or Tyvec
- Spill Kit
- Oil Pump
- Drum Funnel
- Bung Wrench

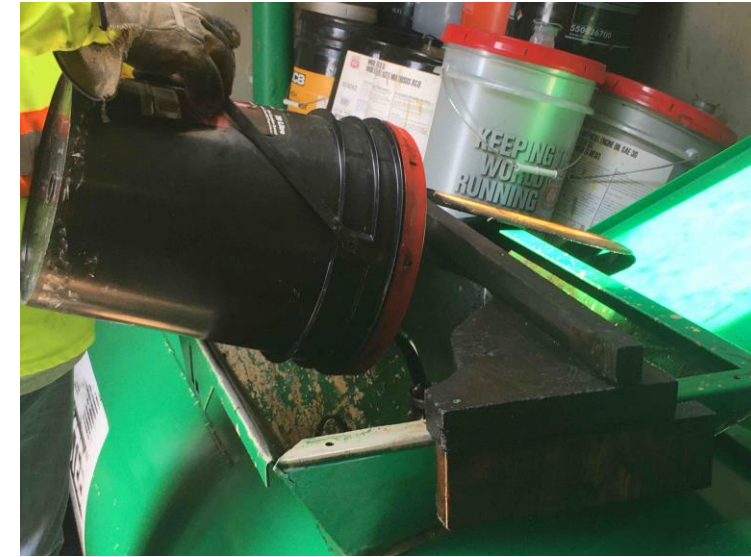
Training:

- Used Oil Handling
- Spill Response

Safety Considerations When Transferring Used Oil From a Small Container to a Drum or Storage Tank

Procedure for transferring used oil to a drum:

1. Make sure the drum is on a pallet and ensure pallet is on solid level ground
2. Place Used Oil Label on the drum
3. Have your spill kit handy
4. Put on your PPE
5. Open the drum with bung wrench
6. Screw bung funnel into the drum bung
7. Carefully lift used oil container and pour oil slowly into the funnel
8. Drain container completely and set aside for packing
9. Check liquid level in the drum to make sure it won't overflow
10. Continue until all your containers are empty or the drum is full
11. Clean up any drips or spills
12. Unscrew the bung funnel
13. Screw in the drum bung and tighten
14. Store pallet in weather protected location until it is time to ship or use the oil in your oil burner



Conclusions

Many of the materials such as Used Oil that we divert from landfill disposal are common everyday products

But even everyday products can be hazardous

Being aware of these potential hazards is an important part of solid waste management practices

Be Aware – Be Safe

Discussion

- **What is your take away from today's discussion?**

KEY TAKE AWAY

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