

There is a risk of serious failure if contamination such as dirt, dust, or water (hereinafter collectively called “foreign matter”) is mixed in with DEF/AdBlue® (hereafter called “DEF”). When refilling and storing DEF, note the following points and perform thorough management.

**Q** What precautions should be taken when DEF refilling?

**A** If foreign matter enters the DEF tank, it may cause a failure in the Urea SCR system. Keep the following points in mind

\*The engine power may be limited in stages in the case of any failure of the Urea SCR system. In this situation, the machine will not operate normally.

- Foreign matter may be attached to a refilling gun or funnel. Use a clean cloth to wipe off foreign matter that may be attached to the nozzles and wash the inner surface of the funnel with DEF before use.
- Please enquire on the proper way to recycle or dispose of waste including DEF from your local environmental or recycling centre, or from your authorised dealer.
- When using a storage tank, clean the area around the pump nozzle, and be careful so that foreign matter does not enter the tank.
- Wipe the tank cap and surrounding area with clean cloth before opening it. Be careful not to have foreign matter attach inside the cap when detaching it. There is a risk that foreign matter enters the tank when the tank cap is not tightened properly. If white crystals are observed on or around the cap, clean up them with a clean cloth.
- When decanting DEF to containers, only use the container specifically allocated for the use of DEF. Do not use a general container (one that is used for other purposes). Make sure to check the inside of the container is not dirty, and be careful that foreign matter does not get into it.
- Be careful not to overfill the AdBlue tank as this may lead to spillages.



1. Isolate machine



2. Wear Correct PPE



3. Locate AdBlue Filter



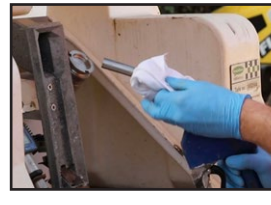
4. Clean around filler



5. Clean around neck of drum



6. Do not use dirty containers



7. Clean nozzle of pump



8. Fill up carefully avoid spillages.



9. Close filler cap



10. Close and lock filler cover

**Q****What precautions should be taken when DEF storing?****A****Keep the following six points in mind when storing.**

- Keep DEF in a sealed container and store at non dusty location so that foreign matter does not get into it. Ensure that the container is clearly marked as the DEF to avoid confusion with any other substance.
- Be careful that foreign matter does not be attached to inner surface of refilling gun/funnel/ nozzle.
- Store at temperature between -10 and 40°C in a well-ventilated location that is not exposed to direct sunlight.
- \*DEF freezes at -11°C. Quality is not affected when thawed.
- \*DEF may deteriorate significantly when stored at 40°C or higher.
- DEF has the potential to corrode iron, copper, brass, aluminium, and PET Plastic products. Only use dedicated polyethylene or stainless-steel storage containers.
- Keep in a sealed container so that DEF does not evaporate.
- Prohibit DEF from storing in same place with dangerous materials such as gasoline or diesel fuel.

**Q****Which DEF can be used?****A****Use DEF (equivalent to AdBlue®) which conform to the following standards.**

- JIS (Japanese Industrial Standards): AUS 32 JIS K2247
- ISO (International Organisation for Standardisation): AUS 32 ISO 22241
- Those items certified by the API (American Petroleum Institute)
- \*DEF is a clear, colourless liquid. If DEF is coloured, do not use, as there is a risk of contamination.
- AdBlue has a shelf life of 12 months at constant temperatures up to 30 deg C; 6 months at constant temperatures up to 35 deg C.

**Q****How should these cases be handled?****A**

1) If DEF comes into contact with the skin, wash the area with water. If it enters the eyes, flush with large amount of clean water for at least 15 minutes and seek medical attention.

2) If DEF is swallowed by mistake, wash down it with drinking several cups of water and promptly seek a medical attention.

If a DEF tank is accidentally filled with anything other than DEF (gasoline, diesel fuel, etc.), contact your nearest Flannery office, as it may cause a failure of the SCR system and/or fire.



Scan this QR code  
and watch our video  
safety instruction