

ISOPA PRODUCT STEWARDSHIP PROGRAM

“One Step Ahead – 2nd Generation”

Management Empty Drums

Management of empty drums TDI/MDI

Empty drums previously containing diisocyanates can be disposed in two ways:

- Empty drums are forwarded to a drum reconditioner and decontamination is done at time of reconditioning (reconditioner need to be informed)
- The empty drums are decontaminated by the user of the original chemicals

Why Decontamination ?

For Health, Safety and Environmental reasons, decontamination of empty drums is **MANDATORY**, not an option, as you never know where the drum ends up

Imagine the consequences for people who open a non decontaminated drum:

The person will be exposed to vapor with no information on the product and could be badly affected ...
and the effect can be delayed as long as 24 hours after exposure

Why Decontamination ?

It's the **user of the original chemicals (diisocyanates)** responsibility to comply with that recommendation:

In case of an accident / incident due to the non or insufficient decontamination of a drum, the user of the diisocyanates shall be liable for all the consequences and his image could be badly impacted

After decontamination, the drum should be clearly marked as being decontaminated
The original labeling with info on TDI/MDI should not be removed from the drum



Only after proper decontamination, the drum can be used for other purposes, except for food/drinking water containment

Decontamination / Empty Drums

Before emptied drums can be collected they need to be decontaminated.

- Drums must have been stored upright for at least 2 H before decontamination
- Preferred decontaminating liquid (5 litres per drum), consists of:
 - Liquid detergent 0,2 – 2%
 - Sodium carbonate 5 – 10%
 - Water to make up for 100%

It is practical experience to use a ready made mixture of the above ingredients and store this for example in an IBC



Drum too quickly closed after decontamination

Decontamination / Empty Drums

Decontamination Process

- Step 1 Wear PPE
- Step 2 Preparation of the decontamination solution
- Step 3 Check if the drum is really drained and empty by weighing
- Step 4 Insert 5 litres of decontamination solution into the drum
- Step 5 Roll the drum
- Step 6 Reopen the drum
- Step 7 Repetition of step 5 and 6
- Step 8 After 2 H, repetition of step 5 and 6 -> 3 times
- Step 9 After 1 day, mix the solid with the liquid inside the drum
- Step 10 The next 2 days, repetition of step 9
- Step 11 Decant liquid and separate from the solid
- Step 12 Leave the drum under cover to stand for at least one week
- Step 13 Label as a decontaminated drum



*Together we can change reality
and perception for the better*

‘One Step Ahead’

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