

SNAP CODE: 091005

SOURCE ACTIVITY TITLE: OTHER WASTE TREATMENT
Compost Production from Waste

NOSE CODE: 109.07.21

NFR CODE: 6 D

1 ACTIVITIES INCLUDED

This chapter covers compost production from organic waste.

2 CONTRIBUTION TO TOTAL EMISSIONS

Table 1: Contribution to total emissions of the CORINAIR90 inventory (28 countries)

| Source-activity | SNAP-code* | Contribution to total emissions [%] | | | | | | | |
|-------------------------------|------------|-------------------------------------|-----------------|-------|-----------------|----|-----------------|------------------|-----------------|
| | | SO ₂ | NO _x | NMVOC | CH ₄ | CO | CO ₂ | N ₂ O | NH ₃ |
| Compost Production from Waste | 091005 | - | - | - | 0.1 | - | 0.6 | - | - |

* = SNAP90 code 090500

0 = emissions are reported, but the exact value is below the rounding limit (0.1 per cent)

- = no emissions are reported

This activity is not believed to be a significant source of PM_{2.5} (as of December 2006).

3 GENERAL

3.1 Description

In many areas organic domestic waste is gathered separately. Composting the organic waste produces a reusable product. The main emissions to be expected have to do with odour and abatement methods are directed at reducing the odour. Also a small amount of ammonia is produced.

4 SIMPLER METHODOLOGY

The simpler methodology would be to multiply the activity level by the ammonia emission factor to provide the ammonia emission.

5 DETAILED METHODOLOGY

6 RELEVANT ACTIVITY STATISTICS

Standard statistics on amounts of organic domestic waste produced.

7 POINT SOURCE CRITERIA

8 EMISSION FACTORS, QUALITY CODES AND REFERENCES

The amount of ammonia produced by composting domestic organic waste is estimated to be about 240 gram ammonia per ton organic waste. Using a biofilter with an efficiency of 90% reduces this amount to 24 gram per ton waste. The accuracy of this figure is estimated as D.

9 SPECIES PROFILES

10 UNCERTAINTY ESTIMATES

11 WEAKEST ASPECTS/PRIORITY AREAS FOR IMPROVEMENT IN CURRENT METHODOLOGY

12 SPATIAL DISAGGREGATION CRITERIA FOR AREA SOURCES

13 TEMPORAL DISAGGREGATION CRITERIA

Emissions from composting organic waste can be regarded as continuous.

14 ADDITIONAL COMMENTS

15 SUPPLEMENTARY DOCUMENTS

16 VERIFICATION PROCEDURES

17 REFERENCES

Milieu-effect rapport GECO 400 VAM NV. (1994)

C. Peek, RIVM, personal communication, 1995.

18 BIBLIOGRAPHY

19 RELEASE VERSION, DATE AND SOURCE

Version : 1

Date : November 1995

Source : P F J van der Most
TNO
The Netherlands

Updated with particulate matter details by:

Mike Woodfield
AEA Technology
UK
December 2006

20 POINT OF ENQUIRY

Any comments on this chapter or enquiries should be directed to:

Pieter van der Most

HIMH-MI-Netherlands
Inspectorate for the Environment
Dept for Monitoring and Information Management
PO Box 30945
2500 GX Den Haag
The Netherlands

Tel: +31 70 339 4606

Fax: +31 70 339 1988

Email: pieter.vandermost@minvrom.nl