2.D.3.b - Road Paving

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Short description

Category Code	Method			AD				EF							
2.D.3.b	T1 AS				CS										
Key Category	SO ₂	NO×	ΝНз	NMVOC	CO	ВС	Pb	Hg	Cd	Diox	PAH	НСВ	TSP	PM ₁₀	PM ₂ 5
2.D.3.b	-/-	-/-	-	-/-	-	-	-	-	-	-	-	-	-/-	-/-	-/-

T = key source by Trend L = key source by Level

Methods	
D	Default
RA	Reference Approach
T1	Tier 1 / Simple Methodology *
T2	Tier 2*
Т3	Tier 3 / Detailed Methodology *
С	CORINAIR
CS	Country Specific
M	Model

^{*} as described in the EMEP/CORINAIR Emission Inventory Guidebook - 2007, in the group specific chapters.

	I .	
AD	- Data Source for Activi	ty Data
NS	National Statistics	
RS	Regional Statistics	
IS	International Statistics	
PS	Plant Specific data	
AS	Associations, business org	anisations
Q	specific questionnaires, su	rveys
EE	Emission Eastons	

EF	- Emission Factors
D	Default (EMEP Guidebook)
C	Confidential
CS	Country Specific
PS	Plant Specific data

Currently, the report tables list produced quantities of mixed asphalt products (from stationary installations only) and NMVOC, NOx and SO2 emissions caused of this. Only emissions from asphalt production are reported. Figures relative to emissions released during laying of asphalt have not been examined.

Method

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Activity data

The applicable quantity of mixed asphalt products produced (activity rate) has been taken from communications of the Deutscher Asphaltverband (DAV; German asphalt association). In total about 660 asphalt-mixing plants produce more than 40 Million tonnes of hot-mix for road paving ¹⁾.

Emission factors

Emission factors have been determined country-specifically, pursuant to Tier 2. For determination of emission factors for emissions measurements from over 400 asphalt-mixing plants, made during the period 1989 through 2000, were used. The majority of the emissions occur during drying of pertinent mineral substances. Almost all of the NMVOC emissions originate in the organic raw materials used, and they are released primarily in parallel-drum operation, as well as from mixers and loading areas. On average, about 50% of the NOx and SO_x involved come from the mineral substances (proportional process emissions). CO emissions are calculated solely in connection with fuel inputs.

Table 1: Overview of applied emission factors, in kg/t

pollutant	Name of Category	EF value	EF trend
NMVOC	Production of mixed asphalt	0.030	constant
NOx	Production of mixed asphalt	0.015	constant
SO _x	Production of mixed asphalt	0.030	constant
TSP	Production of mixed asphalt	0.006	constant
PM ₁₀	Production of mixed asphalt	0.0057	constant
PM _{2.5}	Production of mixed asphalt	0.003	constant

Recalculations

With activity data and emission factors remaining unrevised, no recalculations have been carried out compared to last year's submission.

Planned improvements

At the moment, no category-specific improvements are planned.

¹⁾ https://www.asphalt.de/themen/umwelt/