2.D.3.b - Road Paving

Short description

Category Code			Met	ho	d				A)				EF		
2.D.3.b			T	1					AS	5				CS	5	
Key Category	SO₂	NO _×	NH₃	N	мvос	со	BC	Pb	Hg	Cd	Diox	PAH	HCB	TSP	PM10	PM2 5
2.D.3.b	-/-	-/-	-		-/-	-	-	-	-	-	-	-	-	-/-	-/-	-/-
T = key source b	by Tre	end L	. = k	ey	source	e by	Lev	el								
Methods																
	D					faul										
	т1							npl	e Me	etho	dolog	JY *				
	Т2					r 2*										
	Т3							tail	ed N	1eth	nodol	ogy *				
	С					RIN										
	CS					untr	y Sp	bec	ific							
	М					del										
* as described in						n In	ven	tory	y Gu	ide	book	- 201	9, in t	he g	roup s	pecific
AD - Data Sour			ctivi	ty	Data	_										
NS National Stat						_										
RS Regional Sta						-										
IS International			5			_										
PS Plant Specifi						-										
As Associations			-			-										
Q specific Que		naire	s (or	su	irveys)	-										
M Model / Mode	elled					-										
C Confidential																
EF - Emission I																
D Default (EME	PGu	Ideb	ook)													
C Confidential																
CS Country Spec																
PS Plant Specifie		a														
Model / Mode	elled															

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

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 SO2 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
SOx	Production of mixed asphalt	0.030	constant
TSP	Production of mixed asphalt	0.006	constant
PM10	Production of mixed asphalt	0.0057	constant
PM2.5	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.