# 2.B.5 - Carbide Production

## Short description

| Category Code | Method | | | | | AD | | | | | EF | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.B.5 | T3 | | | | | PS | | | | | PS | | | | |
| **Key Category** | **$SO_2$** | **$NO_x$** | **$NH_3$** | **NMVOC** | **CO** | **BC** | **Pb** | **Hg** | **Cd** | **Diox** | **PAH** | **HCB** | **TSP** | **$PM_{10}$** | **$PM_{2.5}$** |
| 2.B.5 | - | - | - | - | - | - | - | - | - | - | - | - | -/- | -/- | -/- |

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

| **Methods** | |
|---|---|
| **D** | Default |
| **RA** | Reference Approach |
| **T1** | Tier 1 / Simple Methodology * |
| **T2** | Tier 2* |
| **T3** | Tier 3 / Detailed Methodology * |
| **C** | CORINAIR |
| **CS** | Country Specific |
| **M** | Model |
| * as described in the EMEP/CORINAIR Emission Inventory Guidebook - 2007, in the group specific chapters. | |

| **AD - Data Source for Activity Data** | |
|---|---|
| **NS** | National Statistics |
| **RS** | Regional Statistics |
| **IS** | International Statistics |
| **PS** | Plant Specific data |
| **AS** | Associations, business organisations |
| **Q** | specific questionnaires, surveys |

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

During the German Reunification period, **calcium carbide** production took place primarily in the new German Länder. A short time later, production there was discontinued and only one producer remained in the old German Länder. In the period under consideration, this producer cut its production by about 50 per cent.

According to the responsible specialised association within the VCI, **no silicon carbide** has been produced in Germany since 1993. Emissions from this sector thus no longer occur.

# Method

## Activity data

Since Germany has only one producer, the relevant data must be kept confidential. The only published data consists of that for amounts produced in the former GDR. That data was published, until 1989, by that country's central statistical authority. Those figures were used in combination with existing estimates for 1991 and 1992 to interpolate production in the new German Länder in 1990.

## Emission factors

In covered furnaces, producers collect all of the carbon monoxide produced in the process and recycle it for further use. Following such use for energy recovery – i.e., following its combustion to produce carbon dioxide – it serves as an auxiliary substance for production of lime nitrogen and secondary products. Reactions in these processes yield carbon dioxide in mineral form, as black chalk. In this form, it is used in agriculture. Upon request, the relevant producer provides the German Environment Agency with data on amounts produced.

The emission factor for TSP is provided by the producer and is also confidential.

# Recalculations

Because of a technical mistake, the EF of TSP, $PM_{10}$ and $PM_{2.5}$ are corrected for the year 2017. TSP-EF is changed from 0.036 to 0.034 kg/t.

For pollutant-specific information on recalculated emission estimates for Base Year and 2018, please see the pollutant specific recalculation tables following chapter 8.1 - Recalculations.

# Planned improvements

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