TC NES SUBGROUP ON IDENTIFICATION OF PBT AND VPVB SUBSTANCES

RESULTS OF THE EVALUATION OF THE PBT/VPVB PROPERTIES OF:

Substance name: Distillates (coal tar), heavy oils

EC number: 292-607-4

CAS number: 90640-86-1

Molecular formula: Not applicable

Structural formula: Not applicable

Summary of the evaluation:

Distillates (coal tar), heavy oils is considered to be a UVCB substance with PBT/vPvB constituents/impurities. The substance is expected to contain the same polyaromatic hydrocarbons as coal tar pitch, high temperature (CAS 65996-93-2; PBT summary no. 54).

JUSTIFICATION

1 IDENTIFICATION OF THE SUBSTANCE AND PHYSICAL AND CHEMICAL PROPERTIES

Name:	Distillates (coal tar), heavy oils
EC Number:	292-607-4
CAS Number:	90640-86-1
IUPAC Name:	
Molecular Formula:	Not applicable
Structural Formula:	Not applicable
Molecular Weight:	Not applicable
Synonyms:	

1.1 Purity/Impurities/Additives

Distillates (coal tar), heavy oils is a UVCB substance. The description provided under Regulation 93/793/EEC: Distillate from the fractional distillation of coal tar of bituminous coal, with boiling range of 240°C to 400°C (464°F to 752°F). Composed primarily of tri- and polynuclear hydrocarbons and heterocyclic compounds.

1.2 Physicochemical properties

Table 1: Summary of physicochemical properties.

REACH ref Annex, §	Property	Value	Comments
VII, 7.1	Physical state at 20 C and 101.3 Kpa	Solid	European Commission (2000)
VII, 7.2	Melting / freezing point		
VII, 7.3	Boiling point		
VII, 7.5	Vapour pressure		
VII, 7.7	Water solubility		
VII, 7.8	Partition coefficient n-octanol/water (log value)		
	Dissociation constant	-	

It is noted, that the IUCLID (European Commission, 2000) of the substance provides physical-chemical properties of anthracene (CAS 120-12-7), phenanthrene (CAS 85-01-8) and pyrene (CAS 129-00-0).

2 MANUFACTURE AND USES

The substance is one of the downstream products of distillation of coal tar, high temperature (65996-89-6). Eight companies have provided information on the substance under Regulation 93/793/EEC.

3 CLASSIFICATION AND LABELLING

The substance is classified as carcinogenic (Cat 2), T; R45 in the Directive 67/548/EEC.

4 ENVIRONMENTAL FATE PROPERTIES

Environmental fate of the substance can be roughly estimated based on the properties of its constituents and impurities. For fate properties of expected constituents and impurities, see the PBT summary fact sheet of coal tar pitch, high temperature (CAS 65996-93-2, PBT summary no. 54).

5 HUMAN HEALTH HAZARD ASSESSMENT

For CMR properties of the expected constituents, see the PBT summary fact sheet of coal tar pitch, high temperature (CAS 65996-93-2).

6 ENVIRONMENTAL HAZARD ASSESSMENT

For ecotoxicity of the expected constituents, see the PBT summary fact sheet of coal tar pitch, high temperature (CAS 65996-93-2).

7 PBT AND vPvB

7.1 PBT, vPvB assessment

Summary: Distillates (coal tar), heavy oils is considered to be a UVCB substance with PBT/vPvB constituents/impurities. The substance is expected to contain the same polyaromatic hydrocarbons as coal tar pitch, high temperature (CAS 65996-93-2; PBT summary no. 54).

INFORMATION ON USE AND EXPOSURE

Data not reviewed for this report.

OTHER INFORMATION

The information used in this report was taken from the following source:

European Commission, 2000. IUCLID Dataset, Distillates (coal tar), pitch, pyrene fraction, CAS 91995-52-7, 19.2.2000.