

ISD Kokszoló Kft	SAFETY DATA SHEET Tar, coal, high-temperature	Revision: 20 th May 2015 (v 3)
according to 1907/2006/EC, Article 31		

Section 1 Identification of the substance/mixture and of the company

1.1 Product identifier

Trade name: Coal tar

Article number: raw tar

CAS Number: 65996-89-6

EINECS Number: 266-024-0

Index number: 648-082-00-2

Registration number: 01-2119511615-46-0053

1.2 Relevant identified uses of the substance or mixture and uses advised against:

This substance is handled under Strictly Controlled Conditions in accordance with REACH regulation Article 18(4) for transported isolated intermediates.

The uses are specified in the attached document.

Details of the supplier of the safety data sheet

1.3 Manufacturer/Supplier: ISD Kokszoló Kft.

2400 Dunaújváros Vasmű tér 1-3. Hungary

web: www.dunaferr.hu

e-mail address: csjuhasz@dbk.dunaferr.hu

phone: 00.36.2558.1060

fax: 00.36.25.410.614i

Information: see Section 16 (Contact)

1.4 Emergency telephone number: see: Manufacturer/Supplier

Section 2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Muta. 1B H340 May cause genetic defects.

Carc. 1A H350 May cause cancer.

Repr. 1B H360 May damage fertility or the unborn child.

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GHS09 environment

Aquatic Chronic 2

H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Sens. 1

H317 May cause an allergic skin reaction.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

T



T; Toxic

R45-46-60-61:

May cause cancer. May cause heritable genetic damage. May impair fertility. May cause harm to the unborn child.

Xi



Xi; Sensitising

R43:

May cause sensitisation by skin contact.

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N



R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification system:

The Classification is based on the European Registration Dossier

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS07, GHS08, GHS09

Signal word

Danger

Hazard-determining components of labelling:

Coal tar
benzo[a]pyrene
naphthalene
benzene

Hazard statements

H317 May cause an allergic skin reaction.
H340 May cause genetic defects.
H350 May cause cancer.
H360 May damage fertility or the unborn child.
H411 Toxic to aquatic life with long lasting effects.

For professional users only

Precautionary statements

P260 Do not breathe mist.
P273 Avoid release to the environment.
P281 Use personal protective equipment as required.
P363 Wash contaminated clothing before reuse.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P391 Collect spillage.
P405 Store locked up.

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P501 Dispose of contents/container in accordance with local/ regional/
national/ international regulations.

2.3 Other hazards

elevated transport-and storage temperature 30 -55°C

Results of PBT and vPvB assessment

PBT:

120-12-7 anthracene

vPvB: Not applicable.

Section 3 Composition/information on ingredients

3.1 Chemical characterization: Substances

CAS No. Designation: 65996-89-6 Coal tar

Identification number(s): EINECS Number: 266-024-0

Index number: 648-082-00-2

Dangerous components	
CAS: 91-20-3 EINECS: 202-049-5 <20%	naphthalene Xn R22-40; N R50/53 Carc. Cat. 3 GHS08 Carc. 2, H351; GHS09 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; GHS07 Acute Tox. 4, H302
CAS: 120-12-7 EINECS: 204-371-1 <2,5%	anthracene PBT Xi R38; N R50/53 GHS09 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; GHS07 Skin Irrit. 2, H315
CAS: 50-32-8 EINECS: 200-028-5 <2%	benzo[a]pyrene T Carc. Cat. 2, Muta. Cat. 2, Repr. Cat. 2 R45-46-60-61; N R50/53 GHS08 Muta. 1B, H340; Carc. 1B, H350; Repr. 1B, H360; GHS09 Aquatic Acute 1, H400; Aquatic Chronic 1, H410
CAS: 71-43-2 EINECS: 200-753-7 <2%	benzene T Carc. Cat. 1, Muta. Cat. 2 R45-46-48/23/24/25; Xn R65; Xi R36/38; F R11 GHS02 Flam. Liq. 2, H225; GHS08 Muta. 1B, H340; Carc. 1A, H350; STOT RE 1, H372; Asp. Tox. 1, H304; GHS07 Skin Irrit. 2, H315; Eye Irrit. 2, H319

Additional information

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For the wording of the listed risk phrases refer to Section 16.

Section 4 First aid measures

Description of first aid measures

4.1 General information Instantly remove any clothing soiled by the product.

4.1.1 After inhalation

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness bring patient into stable side position for transport.

4.1.2 After skin contact

Clean affected area with soap and plenty of water.

After contact with the hot product, cool rapidly with cold water.

Seek medical treatment.

4.1.3 After eye contact

Rinse opened eye for several minutes under running water.

Seek medical treatment.

4.1.4 After swallowing

Seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed:

None.

4.3 Information for doctor

Therapeutically measures:

basic help, decontamination, symptomatic treatment.

Section 5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fire with foam.

For safety reasons unsuitable extinguishing agents

Water with a full water jet.

5.2 Special hazards arising from the substance or mixture

Can be released in case of fire

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

Sulphur dioxide (SO₂)

Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

Polycyclic aromatic hydrocarbons (PAHs)

Advice for firefighters

5.3 Protective equipment:

Wear self-contained breathing apparatus.

Do not inhale explosion gases or combustion gases.

Additional information

Cool endangered containers with water spray jet.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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Section 6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
Use breathing protection against the effects of fumes/dust/aerosol.
Wear protective clothing (see chapter 8).
- 6.2 Environmental precautions:
Do not allow product to reach sewage system or water bodies.
- 6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
- Reference to other sections:
See Section 8 for information on personal protection equipment.

Section 7 Handling and storage

- 7.1 Precautions for safe handling:
This substance is handled under Strictly Controlled Conditions in accordance with REACH regulation Article 18(4) for transported isolated intermediates. Site documentation to support safe handling arrangements including the selection of engineering, administrative and personal protective equipment controls in accordance with risk-based management systems should be available at each site.
Ensure good ventilation/exhaustion at the workplace
Open and handle container with care.
Prevent formation of aerosols.
Precautions against electrostatic charging.
- Information about protection against explosions and fires:
Keep breathing equipment ready.
- 7.2 Conditions for safe storage, including any incompatibilities
Storage
Requirements to be met by storerooms and containers:
Storehouses and workplaces must be sufficiently ventilated.
Information about storage in one common storage facility:
Store away from oxidizing agents.
- 7.3 Further information about storage conditions: None.

Section 8 Exposure controls/personal protection

- 8.1 Additional information about design of technical systems:
No further data; see item 7.
- 8.2 General protective and hygienic measures
Keep away from foodstuffs, beverages and food.
Take off immediately all contaminated clothing
Wash hands during breaks and at the end of the work.

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Store protective clothing separately.

Special rooms for washing, showering and changing are required.

Do not inhale gases / fumes / aerosols.

8.2.1 Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Short term filter device: Filter ABEK

8.2.2 Protection of hands:

Only use chemical-protective gloves with CE-labelling of category III (EN 374).

Heat resistant gloves

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Nitril rubber

Butyl rubber

e.g. glove of Fa. KCL, www.KCL.de (sitemap): Camatril (art.-no. 731, 730, level 6, >480min), Butoject (art.-no.: 898, level 6, >480min)

As protection from splashes gloves made of the following materials are suitable:

Nitril rubber, NBR

e.g. oneway gloves fa. KCI www.KCL.de(sitemap): Dermatril (Art.-No. 740)

8.2.3 Eye protection:

Tightly sealed safety glasses.

Gauze goggles

8.2.4 Body protection:

Use protective suit.

8.3 Environmental exposure controls:

See Section 7. No additional measures necessary.

Section 9 Physical and chemical properties

9.1 General Information

Appearance:

Form: liquid

viscous

Colour: brownish

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black

Odour: aromatic

Change in condition

Boiling point/Boiling range: < 40% until 350°C (DIN 52027)

Pour point: < 30°C (DIN ISO 3016 (1982))

Flash point: >101°C (closed cup DIN 51758) [>61°C (EN ISO 2719)]

Ignition temperature: > 560°C (DIN 51794)

Decomposition temperature: > 400°C (DIN 52027)

Self-inflammability: Product is not selfigniting.

Danger of explosion: Vapours may form explosive mixtures with air.

Vapour pressure at 20°C: ca. 1.091 kPa (NF T 20-048 AFNOR Sept.85)

Density at 20°C 1,1-1,3g/cm³ (ASTM D4052)

Solubility in / Miscibility with
water at 20°C: 13,5 mg/L (at 1g/L loading)

Viscosity:
kinematic at 20°C: ca. 133 mm²/s (DIN 53019)

9.3 Other: None

Section 10 Stability and reactivity

- 10.1 Chemical stability:
Under normal conditions the product is stable.
- 10.2 Possibility of hazardous reactions
No dangerous reactions known
- 10.3 Hazardous chemical reactions:
No decomposition.
- 10.4 Condition to avoid:
Thermal conditions, decomposition to be avoided.
- 10.5 Materials to avoid:
Not known.
- 10.6 Hazardous decomposition products:
No dangerous decomposition products known.

Section 11 Toxicological information

Acute toxicity:

LD/LC50 values that are relevant for classification:
65996-89-6 Coal tar
Oral

LD50	>2000 mg/kg (rat) (OECD 423)
NOAEL (6 mon)	approx. 350 mg/(kg*d) (mouse) (OECD 408)

Primary irritant effect:
on the skin:
At longterm exposure upon the skin an irritation is possible.
In combination with UV-light, irritation of skin (phototoxic effects) may occur.

on the eye:
Irritation of the mucous membranes are possible.

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Sensitization:

Sensitization of the skin is possible on repeated skin contact.

Additional toxicological information:

Carcinogenic

The product can cause inheritable damage.

65996-89-6 Coal tar

Oral

LOAEL (Carc.)	120 mg/kg/d (mouse) (OECD 451)
NOAEL (Carc.)	36 mg/kg/d (mouse) (OECD 451)
Sensitisation Skin Sens.	LLNA positive (mouse) (OECD 429)
Mutagenicity	positive (bacteria) (OECD 471)

Section 12 Ecological information

12.1 Aquatic toxicity:

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EL50 (48h)	2.8 mg/L (daphnia) (loading OECD 202)
ErL (72h)	36 mg/L (algae) (loading OECD 201)
LL50 (96h)	>250 mg/L (fish) (loading OECD 203)
NOELR	5 mg/L (algae) (loading OECD 202)

12.2 Persistence and degradability

Not easily degradable

12.3 Bioaccumulative potential:

Not easily biodegradable

12.4 Mobility in soil:

Moderate

12.5 Results of PBT and vPvB assessment

PBT:

120-12-7 anthracene

vPvB: Not applicable.

12.6 Additional ecological information:

General notes:

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into soil.

Section 13 Disposal considerations

Waste treatment methods

Recommendation

Remove according to local authority recommendations, e.g. convey to a suitable incinerator.

European waste catalogue

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The waste code classification is to be carried out according to the European Waste Catalogue (EWC) specifically for each branch of industry and each type of process.

Section 14 Transport information

14.1 UN proper shipping name:

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (Coal tar)

14.2 Land transport ADR/RID (cross-border)

Designation of goods: Substances with 61 °C < Fp £ 100 °C, n.o.s.

14.3 ADR/RID Class:

9 Miscellaneous dangerous substances and articles.

Hazard Index Number: 90

Substance Index Number: 3082

14.4 Packaging group: III

Label: 9

Special marking: Symbol (fish and tree)

Excepted quantities (EQ): E1

Limited quantities (LQ) LQ7

Tunnel restriction code E

Inland shipping ADN/ADNR:

ADN/ADNR Class: 9

Substance Index Number: 9003

Designation of goods: Substances with 61 °C < Fp £ 100 °C, n.o.s.

14.5 Environmental hazards:

Danger to drinking water if even extremely small quantities leak into soil.

14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

14.7 Maritime Bulk Transport (IMO-IBC)

Listed in the "Report of the Maritime Environment Protection Committee",
Chapter 17

Shipping Name: Coal Tar

Maritime transport IMDG:

IMDG Class: 9

UN Number: 3082

Label: 9

Packaging group: III

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EMS Number: F-A,S-F
Marine pollutant: Symbol (fish and tree)
Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (Coal tar)

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 9
UN/ID Number: 3082
Label: 9
Special marking: Symbol (fish and tree)
Packaging group: III
Correct technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (Coal tar)

UN "Model Regulation":

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S., 9, III

Section 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- National regulations

- Information about limitation of use:

Employment restrictions concerning pregnant and lactating women must be observed.

Employment restrictions concerning women of child-bearing age must be observed.

Employment restrictions concerning young person must be observed.

15.2 Chemical Safety Assessment:

For this substance (transported isolated intermediate) a chemical safety assessment is not required.

Section 16 Other information

Data compared to the previous version altered.

Data changed compared with the previous version.

Revision of MSDS is 20th January 2012. The changes needed formal reasons, the content did not change.

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Relevant phrases

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H340	May cause genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
IATA-DGR:	Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO:	International Civil Aviation Organization
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
IMO:	International Maritime Organisation

Sources

GESTIS Stoffdatenbank (<http://www.hvbg.de/d/bia/fac/zesp/sept.htm>)
REACH Dossier (European Regulation Dossier)

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Statement

This data is based on our present knowledge. However, it shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Most common technical function of substance (what it does):

Intermediates

Remarks:

*This substance is handled under **Strictly Controlled Conditions** in accordance with REACH regulation Article 18(4) for transported isolated intermediates. Site documentation to support safe handling arrangements including the selection of engineering, administrative and personal protective equipment controls in accordance with risk-based management systems is available at each Manufacturing site.*

Written confirmation of application of Strictly Controlled Conditions has been received from every affected Distributor or Manufacturer / Downstream User of the Registrant's intermediate.

Department issuing data specification sheet:

Department of Technology

Contact Person:

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Identified uses

All identified uses summarized below take place in closed system.

Table 1. Uses by workers in industrial settings

IU number Identified Use (IU) name	Substance supplied to that use	Use descriptors
1. manufacture of coal tar as a by-product when producing coke in a cokery	as such (substance itself)	<p>Process category (PROC): PROC 2: Use in closed, continuous process with occasional controlled exposure PROC 3: Use in closed batch process (synthesis or formulation)</p> <p>Market sector by type of chemical product: PC 19: Intermediate</p> <p>Environmental release category (ERC): ERC 6a: Industrial use resulting in manufacture of another substance (use of Intermediates)</p> <p>Sector of end use (SU): SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)</p> <p>Subsequent service life relevant for that use?: yes</p> <p>Article category related to subsequent service life (AC): AC 0: Other: n.a.</p>
2. use of coal tar as raw material for the production (coal tar distillation) of several aromatic chemicals	as such (substance itself)	<p>Process category (PROC): PROC 2: Use in closed, continuous process with occasional controlled exposure PROC 3: Use in closed batch process (synthesis or formulation)</p> <p>Market sector by type of chemical product: PC 19: Intermediate</p> <p>Environmental release category (ERC): ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)</p> <p>Sector of end use (SU):</p>

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IU number Identified Use (IU) name	Substance supplied to that use	Use descriptors
		SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) Subsequent service life relevant for that use?: no Article category related to subsequent service life (AC): AC 0: Other: n.a.
3. use of coal tar (injection in a blast furnace) as reducing agent for iron production	as such (substance itself)	Process category (PROC): PROC 2: Use in closed, continuous process with occasional controlled exposure PROC 3: Use in closed batch process (synthesis or formulation) Market sector by type of chemical product: PC 19: Intermediate Environmental release category (ERC): ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates) Sector of end use (SU): SU 14: Manufacture of basic metals, including alloys Subsequent service life relevant for that use?: no Article category related to subsequent service life (AC): AC 0: Other: n.a.
4. use of coal tar as reducing agent for metal production	as such (substance itself)	Process category (PROC): PROC 2: Use in closed, continuous process with occasional controlled exposure PROC 3: Use in closed batch process (synthesis or formulation) Market sector by type of chemical product: PC 19: Intermediate Environmental release category (ERC): ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)

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IU number Identified Use (IU) name	Substance supplied to that use	Use descriptors
		Sector of end use (SU): SU 14: Manufacture of basic metals, including alloys Subsequent service life relevant for that use?: no Article category related to subsequent service life (AC): AC 0: Other: n.a.
5. use of coal tar (injection in a carbon black furnace) as feedstock for carbon black production	as such (substance itself)	Process category (PROC): PROC 2: Use in closed, continuous process with occasional controlled exposure PROC 3: Use in closed batch process (synthesis or formulation) Market sector by type of chemical product: PC 19: Intermediate Environmental release category (ERC): ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates) Sector of end use (SU): SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) Subsequent service life relevant for that use?: no Article category related to subsequent service life (AC): AC 0: Other: n.a.
6. use of coal tar for industrial energy production	as such (substance itself)	Process category (PROC): PROC 2: Use in closed, continuous process with occasional controlled exposure Market sector by type of chemical product: PC 19: Intermediate Environmental release category (ERC): ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)

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IU number Identified Use (IU) name	Substance supplied to that use	Use descriptors
		Sector of end use (SU): SU 0: Other: SU 3: Industrial uses: Uses of substances as such or in preparations at Industrial sites Subsequent service life relevant for that use?: no Article category related to subsequent service life (AC): AC 0: Other: n.a.
7. use of coal tar to agglomerate coal particles in a closed system and coking the agglomerated coke particles for coke production	as such (substance itself)	Process category (PROC): PROC 3: Use in closed batch process (synthesis or formulation) Market sector by type of chemical product: PC 19: Intermediate Environmental release category (ERC): ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates) Sector of end use (SU): SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) Subsequent service life relevant for that use?: no Article category related to subsequent service life (AC): AC 0: Other: n.a.
9. sampling, loading, unloading of coal tar (for all uses)	as such (substance itself)	Process category (PROC): PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities Market sector by type of chemical product:

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IU number Identified Use (IU) name	Substance supplied to that use	Use descriptors
		PC 19: Intermediate Environmental release category (ERC): ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates) Sector of end use (SU): SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) SU 14: Manufacture of basic metals, including alloys SU 0: Other: SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites. Subsequent service life relevant for that use?: no Article category related to subsequent service life (AC): AC 0: Other: n.a.
10. laboratory analyses of coal tar (for all uses)	as such (substance itself)	Process category (PROC): PROC 15: Use as laboratory reagent Market sector by type of chemical product: PC 19: Intermediate PC 21: Laboratory chemicals Environmental release category (ERC): ERC 6a: Industrial use resulting in manufacture of another substance (use of Intermediates) Sector of end use (SU): SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) SU 14: Manufacture of basic metals, including alloys SU 0: Other: SU 3: Industrial uses: Uses of substances as such or in preparations at Industrial sites. Subsequent service life relevant for that use?: no

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IU number Identified Use (IU) name	Substance supplied to that use	Use descriptors
		Article category related to subsequent service life (AC): AC 0: Other: n.a.
8. use of coal tar to coat coal particles in a closed system and coking the coal particles for coke production	as such (substance itself)	Process category (PROC): PROC 3: Use in closed batch process (synthesis or formulation) Market sector by type of chemical product: PC 19: Intermediate Environmental release category (ERC): ERC 6a: Industrial use resulting in manufacture of another substance (use of Intermediates) Sector of end use (SU): SU 8: Manufacture of bulk, large scale chemicals (including petroleum products) Subsequent service life relevant for that use?: no Article category related to subsequent service life (AC): AC 0: Other: n.a.