

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/28/2021

Version number 1

Reviewed on 05/28/2021

1 Identification**. Product identifier****. Trade name: Calcined Petroleum Coke****. CAS Number:**

64743-05-1

. Application of the substance / the mixture Production of aluminum and titanium dioxide.**. Details of the supplier of the safety data sheet****. Supplier:**

Harry R. Defler Corp
4446 Main St. 2nd Floor
Buffalo, NY 14226
USA

email: Office@Defler.com

Phone: +1-716-839-3727

Fax: +1-716-839-5337

. Information department:

see: chapter 16 (contact)

. Emergency telephone number:

see manufacturer/supplier

DURING THE TRANSPORT CALL ONLY:

24-hour-Emergency-Telephone-Number

GBK Contract ID: 94482: (001) 352 323 3500 (INFOTRAC)

1 800 535 5053 (USA domestic)

Emergency-Telephone-Number INTERNATIONAL:

GBK GmbH, Ingelheim: +49 (0) 61 32 / 84 463 (in national language)

in other cases:

manufacturer / supplier (1.3)

2 Hazard(s) identification**. Classification of the substance or mixture**

The substance is not classified, according to the Globally Harmonized System (GHS).

. Label elements**. GHS label elements** Void**. Hazard pictograms** Void**. Signal word** Void**. Hazard statements** Void**. Precautionary statements**

P261 Avoid breathing dust.

P273 Avoid release to the environment.

P285 In case of inadequate ventilation wear respiratory protection.

P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

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Trade name: Calcined Petroleum Coke**. Classification system****. NFPA ratings (scale 0 - 4)**

Health = 1

Fire = 1

Reactivity = 0

. HMIS ratings (scale 0 - 4)

Health: 1

Fire: 1

Reactivity: 0

. Other hazards**. Results of PBT and vPvB assessment****. PBT:** Not applicable.**. vPvB:** Not applicable.**3 Composition/information on ingredients****. Chemical characterization: Substances****. CAS No. Description:**

64743-05-1 Coke (petroleum), calcined

4 First-aid measures**. Description of first aid measures****. General information** Personal protection for the First Aider.**. After inhalation** Supply fresh air; consult doctor in case of complaints.**. After skin contact** Immediately wash with water and soap and rinse thoroughly.**. After eye contact** Rinse opened eye for several minutes under running water. Then consult a doctor.**. After swallowing**

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

. Information for doctor Therapeutically measures: basic help, decontamination, symptomatic treatment.**. Most important symptoms and effects, both acute and delayed** No further relevant information available.**. Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures**. Extinguishing media****. Suitable extinguishing agents** CO₂, extinguishing powder or water spray. Fight larger fire with foam.**. For safety reasons unsuitable extinguishing agents** Water with full jet.**. Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Carbon monoxide (CO)

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Trade name: Calcined Petroleum Coke**. Advice for firefighters****. Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

6 Accidental release measures**. Personal precautions, protective equipment and emergency procedures** Wear protective clothing.**. Environmental precautions:** No special measures required.**. Methods and material for containment and cleaning up:** Pick up mechanically.**. Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

. Protective Action Criteria for Chemicals**. PAC-1:**30 mg/m³**. PAC-2:**330 mg/m³**. PAC-3:**2,000 mg/m³**7 Handling and storage****. Handling****. Precautions for safe handling**

The usual precautionary measures for handling chemicals should be followed.

Ensure good ventilation/exhaustion at the workplace.

. Information about protection against explosions and fires: Keep respiratory protective device available.**. Conditions for safe storage, including any incompatibilities****. Storage****. Requirements to be met by storerooms and receptacles:** Ensure good ventilation/exhaustion at the workplace.**. Information about storage in one common storage facility:** Store away from oxidizing agents.**. Further information about storage conditions:** Keep receptacle tightly sealed.**. Specific end use(s)** No further relevant information available.**8 Exposure controls/personal protection****. Control parameters****. Components with limit values that require monitoring at the workplace:****64743-05-1 Coke (petroleum), calcined**

ACGIH

Long-term value: (Respirable Fraction) 3 mg/m³Ceiling limit value: (Total Dust) 10 mg/m³

TLV (8-hr TWA)

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Trade name: Calcined Petroleum Coke

OSHA 1910.1000	Long-term value: (Respirable Fraction) 5 mg/m ³ Ceiling limit value: (Nuisance Dust) 15 mg/m ³ PEL (8-hr TWA)
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. **Exposure controls**. **Personal protective equipment**. **General protective and hygienic measures**

The usual precautionary measures for handling chemicals should be followed.

. **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Filter P2 (EN 143)

. **Protection of hands:** Only use chemical-protective gloves of category III.. **Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

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.

. **Eye protection:** Safety glasses. **Body protection:** Protective work clothing.**9 Physical and chemical properties**. **Information on basic physical and chemical properties**. **General Information**. **Appearance:**

Form: Solid in various forms
Powder
Granulate

Color: Black

. **Odor:** Nearly odorless

. **pH-value:** Not applicable.

. **Change in condition**

Melting point/Melting range: not applicable

Boiling point/Boiling range: Not applicable.

. **Flash point:** Not applicable

. **Flammability (solid, gaseous)** Product is not flammable.

. **Ignition temperature:** ~ 500 °C (~ 932 °F) (DIN 51 794)

. **Danger of explosion:** Dust can combine with air to form an explosive mixture.

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Trade name: Calcined Petroleum Coke

. Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
. Vapor pressure:	
Not applicable.	
. Density at 20 °C (68 °F):	
0.72-1.28 g/cm ³ (6.0084-10.6816 lbs/gal)	
. Relative density	
Not determined.	
. Vapor density	
Not applicable.	
. Evaporation rate	
Not applicable.	
. Solubility in / Miscibility with	
Water:	Insoluble
. Viscosity:	
dynamic:	Not applicable.
kinematic:	Not applicable.
. Other information	
The data in this chapter cover product groups. For product-specific data see the corresponding Technical Information.	

10 Stability and reactivity

- . Reactivity** No further relevant information available.
- . Chemical stability**
- . Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- . Possibility of hazardous reactions**
 - Reacts with strong acids and oxidizing agents
 - Reacts with peroxides and other radical forming substances
- . Conditions to avoid** No further relevant information available.
- . Incompatible materials:** No further relevant information available.
- . Hazardous decomposition products:** No dangerous decomposition products known

11 Toxicological information**. Information on toxicological effects****. Additional toxicological information:****64743-05-1 Coke (petroleum), calcined**

Skin irritation/corrosion

First aid is not normally required. May be abrasive and mildly irritating.
Prolonged or repeated contact may cause skin irritation or dermatitis to susceptible individuals.

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Eye damage/irritation	No significant irritation expected. Possible abrasive mechanical irritation, dust may cause stinging, watering, or redness. Flush eyes with plenty of water.
Carcinogenicity	-The National Toxicology Program (NTP) has not identified calcined petroleum coke as known or anticipated carcinogen. -The International Agency for Research on Cancer (IARC) has not identified calcined petroleum coke as a probable, possible or confirmed human carcinogen. -The Occupational Safety and Health Administration (OSHA) has not identified calcined petroleum coke as a carcinogen or potential carcinogen.
Irritation of the respiratory tract	INHALATION (Breathing) Acute: No significant irritation expected. Possible mechanical irritation. Possible irritation of respiratory tract. May aggravate pre-existing respiratory conditions. Chronic: Repeated overexposure to any dusts may result in irritation of the respiratory tract, pneumoconiosis (dust congested lungs), pneumonitis (lung inflammation), coughing, and shortness of breath.

12 Ecological information. **Toxicity**. **Aquatic toxicity:** No further relevant information available.. **Persistence and degradability****64743-05-1 Coke (petroleum), calcined**

Persistence and degradability | Calcined petroleum coke does not readily degrade.

. **Behavior in environmental systems:**. **Bioaccumulative potential****64743-05-1 Coke (petroleum), calcined**

Bioaccumulative potential | Calcined petroleum coke has a low bioaccumulative potential.

. **Mobility in soil****64743-05-1 Coke (petroleum), calcined**

Mobility in soil | Calcined petroleum coke is non-reactive and mobility in soil is low.

. **Results of PBT and vPvB assessment**. **PBT:** Not applicable.. **vPvB:** Not applicable.

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Trade name: Calcined Petroleum Coke**. Other adverse effects****64743-05-1 Coke (petroleum), calcined**

Other adverse effects	Calcined petroleum coke has a low potential to cause adverse effects on the aquatic and terrestrial environments.
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13 Disposal considerations**. Waste treatment methods****. Recommendation** Remove according to local authority recommendations, e.g. convey to a licensed incinerator.**. Uncleaned packagings:****. Recommendation:** Disposal must be made according to official regulations.**14 Transport information****. DOT, ADN, IMDG, IATA**

Void

. UN proper shipping name**. DOT, ADN, IMDG, IATA**

Void

. Transport hazard class(es)**. DOT, ADN, IMDG, IATA****. Class**

Void

. Packing group**. DOT, IMDG, IATA**

Void

. Environmental hazards:**. Marine pollutant:**

No

. Special precautions for user

Not applicable.

. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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. Transport/Additional information:**. DOT**

TRANSPORTATION IN BULK:
Hot calcined petroleum coke is regulated when loading cargo vessels, if the coke temperature exceeds 130F.
(See 46 CFR 148.10).

. UN "Model Regulation":

Void

15 Regulatory information**. Safety, health and environmental regulations/legislation specific for the substance or mixture**

No further relevant information available.

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Trade name: Calcined Petroleum Coke	
. SARA Section 355 (extremely hazardous substances)	
Substance is not listed.	
. SARA Section 313 (specific toxic chemical listings)	
Substance is not listed.	
. TSCA (Toxic Substances Control Act)	
	ACTIVE
. Hazardous Air Pollutants	
Substance is not listed.	
. Cancerogenity categories	
. IARC (International Agency for Research on Cancer)	
Substance is not listed.	
. NTP (National Toxicology Program)	
Substance is not listed.	
. TLV (Threshold Limit Value)	
Substance is not listed.	
. NIOSH-Ca (National Institute for Occupational Safety and Health)	
Substance is not listed.	
. OSHA-Ca (Occupational Safety & Health Administration)	
Substance is not listed.	
. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	

16 Other information

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

. Department issuing SDS:

Produktsicherheit / Regulatory Affairs Tel.: +49 2305 705 129

. Contact:

see: Manufacturer

Sales Dept. : Phone: +1-716-839-3727

. Date of preparation / last revision 05/28/2021 / -**. Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 vPvB: very Persistent and very Bioaccumulative
 NIOSH: National Institute for Occupational Safety
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit