

## SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

### KETJENBLACK EC-300J

Version	Revision Date:	CN / EN	Date of last issue: 2019/07/30
3.0	2022/08/04		Date of first issue: 2015/01/15

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : KETJENBLACK EC-300J

##### Manufacturer or supplier's details

Company : Nouryon Functional Chemicals B.V.

Address : Zutphenseweg 10  
NL 7418 AJ Deventer  
Netherlands

Telephone : +31889840367

Emergency telephone number : 24 hours:+31 57 06 79211, US-CHEMTREC:1-800-424-9300,  
CA-CANUTEC:1-613-996-6666, JP: +81 (836) 74 8810, CN: 化  
学事故应急咨询电话 : +86 532 8388 9090

E-mail address : polymer.emeia@nouryon.com

##### Recommended use of the chemical and restrictions on use

Recommended use : Conductive additive

Restrictions on use : Use as pigment in tattoo colors for humans

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#### 2. HAZARDS IDENTIFICATION

##### Emergency Overview

<b>Appearance</b>	: pellets
<b>Colour</b>	: black
<b>Odour</b>	: odourless

Not a hazardous substance or mixture.

##### GHS Classification

Not a hazardous substance or mixture.

##### GHS label elements

Not a hazardous substance or mixture.

##### Physical and chemical hazards

Not classified based on available information.

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#### Health hazards

Not classified based on available information.

#### Environmental hazards

Not classified based on available information.

#### Other hazards which do not result in classification

Dust can form an explosive mixture in air.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Substance
Substance name	:	Carbon black
CAS-No.	:	1333-86-4
Synonyms	:	Carbon black

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Carbon black	1333-86-4	<= 100

### 4. FIRST AID MEASURES

General advice	:	No hazards which require special first aid measures.
If inhaled	:	Remove to fresh air. Keep patient warm and at rest. Rinse nose and mouth with water.
In case of skin contact	:	Remove contaminated clothing and shoes. Rinse with water.
In case of eye contact	:	Rinse with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing.
If swallowed	:	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.
Most important symptoms	:	The symptoms and effects are as expected from the hazards

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and effects, both acute and delayed : as shown in section 2. No specific product related symptoms are known.

Notes to physician : Treat symptomatically.

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#### 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
  - Specific hazards during firefighting : Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.
  - Hazardous combustion products : Fire will produce smoke containing hazardous combustion products (see section 10).
  - Specific extinguishing methods : Standard procedure for chemical fires.
  - Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
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#### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Avoid dust formation.
  - Environmental precautions : No special environmental precautions required.
  - Methods and materials for containment and cleaning up : Sweep up and shovel.  
Keep in suitable, closed containers for disposal.
  - Prevention of secondary hazards : Follow safe handling advice and personal protective equipment recommendations.
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#### 7. HANDLING AND STORAGE

##### Handling

- Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.

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No sparking tools should be used.

Advice on safe handling : For personal protection see section 8.  
 Avoid creating dust.  
 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
 No special handling advice required.

Avoidance of contact : None known.

#### Storage

Conditions for safe storage : Keep in a dry place.  
 Store at room temperature in the original container.  
 Keep container tightly closed.

Materials to avoid : No special restrictions on storage with other products.

Further information on storage stability : No decomposition if stored and applied as directed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Carbon black	1333-86-4	PC-TWA (Total dust)	4 mg/m <sup>3</sup>	CN OEL
Further information: G2B - Possibly carcinogenic to humans				
		TWA (Inhalable particulate matter)	3 mg/m <sup>3</sup>	ACGIH

### Further occupational exposure limits

Description	Value type (Form of exposure)	Control parameters	Basis
KETJENBLACK EC-300J	TWA (Total dust)	4 mg/m <sup>3</sup>	CN OEL

Engineering measures : Provide appropriate exhaust ventilation at places where dust

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is formed.

#### Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.  
In the case of dust, vapour or aerosol formation use a respirator with an approved filter.  
Half mask with a particle filter P2 (EN 143)
- Eye/face protection : Safety glasses
- Hand protection  
Material : For prolonged or repeated contact use protective gloves.
- Hygiene measures : General industrial hygiene practice.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : pellets
- Colour : black
- Odour : odourless
- Odour Threshold : No data available
- pH : alkaline
- Melting point : No data available
- Boiling point/boiling range : No data available
- Flash point : Not applicable
- Evaporation rate : Not applicable
- Flammability (solid, gas) : May form combustible dust concentrations in air.
- Self-ignition : not determined: expected to be  
> 400 °C

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Method: Auto-ignition of a 5mm dust layer according to EN 50281-2-1

Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	No data available
Bulk density	:	125 - 145 kg/m <sup>3</sup> (20 °C)
Solubility(ies)		
Water solubility	:	insoluble (20 °C)
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	not determined: expected to be > 600 °C Method: Auto-ignition of a dust cloud according to EN 50281-2-1 G-G oven
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	Not classified as oxidising.
Self-heating substances	:	The substance or mixture is not classified as self heating.
Dust deflagration index (Kst)	:	148 m.b_/s

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Dust explosion class	:	St1
Minimum ignition energy	:	not determined: expected to be > 1,000 mJ (L = 0 mH)
Particle Size Distribution	:	D10 = 4 $\mu\text{m} \pm 1 \mu\text{m}$ D50 = 11 $\mu\text{m} \pm 1 \mu\text{m}$ D90 = 22 $\mu\text{m} \pm 3 \mu\text{m}$ D99 = 42 $\mu\text{m} \pm 8 \mu\text{m}$ Type of distribution: volume distribution Measurement method: ISO 13320 Measurement technique: Laser light diffraction Physical state: aggregates (These data are typical for the product and not a specification), Dust explosion data are applicable to the aggregate particle size distribution.

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#### 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under normal conditions.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Dust may form explosive mixture in air.
Conditions to avoid	:	None known.
Incompatible materials	:	None known.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.
Hazardous decomposition products	:	Carbon oxides
Thermal decomposition	:	No data available

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#### 11. TOXICOLOGICAL INFORMATION

##### Acute toxicity

Not classified based on available information.

##### Components:

##### Carbon black:

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Acute oral toxicity : LD50 (Rat, male and female): > 10,000 mg/kg  
Method: OECD Test Guideline 401

#### **Skin corrosion/irritation**

Not classified based on available information.

#### **Components:**

##### **Carbon black:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

#### **Serious eye damage/eye irritation**

Not classified based on available information.

#### **Components:**

##### **Carbon black:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

#### **Respiratory or skin sensitisation**

##### **Skin sensitisation**

Not classified based on available information.

##### **Respiratory sensitisation**

Not classified based on available information.

#### **Components:**

##### **Carbon black:**

Test Type : Buehler Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not sensitizing.  
GLP : yes

#### **Germ cell mutagenicity**

Not classified based on available information.



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#### **Components:**

##### **Carbon black:**

Genotoxicity in vitro : Test Type: Ames test  
 Test system: Salmonella typhimurium  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 471  
 Result: negative  
 GLP: yes

Genotoxicity in vivo : Species: Rat (female)  
 Application Route: Inhalation  
 Result: negative

Germ cell mutagenicity - Assessment : Not mutagenic.

##### **Carcinogenicity**

Not classified based on available information.

#### **Product:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

#### **Components:**

##### **Carbon black:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

There is still an ongoing scientific discussion on the relevance of tumorigenic response in rats to inorganic insoluble particles like carbon black. According to many inhalation toxicologists the tumour response observed in the rat studies is species specific. It does not correlate to human exposure. However, the IARC evaluation in Monograph 65 concluded that there is "sufficient evidence in experimental animals for the carcinogenicity of carbon black". In humans there is inadequate evidence for carcinogenicity of carbon black according to IARC. Based on IARC's system of evaluation its overall evaluation for carbon black is that it is "possibly carcinogenic to humans" (group 2B). The PAH (polycyclic aromatic hydrocarbon) content of Ketjenblack carbon blacks is below 0.1% (see specification of the different carbon black types).

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Not carcinogenic.

#### **Reproductive toxicity**

Not classified based on available information.

#### **Components:**

##### **Carbon black:**

Reproductive toxicity - Assessment : No toxicity to reproduction

#### **STOT - single exposure**

Not classified based on available information.

#### **STOT - repeated exposure**

Not classified based on available information.

#### **Components:**

##### **Carbon black:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### **Repeated dose toxicity**

#### **Components:**

##### **Carbon black:**

Species : Rat, female  
NOAEC : 0.001 mg/l  
Application Route : Inhalation

#### **Aspiration toxicity**

Not classified based on available information.

#### **Components:**

##### **Carbon black:**

No aspiration toxicity classification

#### **Further information**

#### **Product:**

Remarks : No further data available.

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#### Components:

##### **Carbon black:**

Remarks : No further data available.

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **Carbon black:**

Toxicity to fish	:	LC0 (Danio rerio (zebra fish)): > 1,000 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 5,600 mg/l Exposure time: 24 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): > 10,000 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes

### Persistence and degradability

#### Components:

##### **Carbon black:**

Biodegradability : Remarks: No data available

### Bioaccumulative potential

#### Components:

##### **Carbon black:**

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Bioaccumulation : Remarks: No data available

#### Mobility in soil

No data available

#### Other adverse effects

#### Product:

Additional ecological information : None known.

#### Components:

#### **Carbon black:**

Additional ecological information : None known.

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### 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Contaminated packaging : Empty remaining contents.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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### 14. TRANSPORT INFORMATION

#### International Regulations

#### **UNRTDG**

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable

#### **IATA-DGR**

UN/ID No. : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable

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Packing instruction (cargo aircraft) : Not applicable

Packing instruction (passenger aircraft) : Not applicable

#### IMDG-Code

UN number : Not applicable

Proper shipping name : Not applicable

Class : Not applicable

Subsidiary risk : Not applicable

Packing group : Not applicable

Labels : Not applicable

EmS Code : Not applicable

Marine pollutant : Not applicable

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### National Regulations

##### GB 6944/12268

UN number : Not applicable

Proper shipping name : Not applicable

Class : Not applicable

Subsidiary risk : Not applicable

Packing group : Not applicable

Labels : Not applicable

#### Special precautions for user

Not applicable

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## 15. REGULATORY INFORMATION

#### National regulatory information

##### Law on the Prevention and Control of Occupational Diseases

#### The components of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

AIIC : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

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ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	On the inventory, or in compliance with the inventory
TECI	:	On the inventory, or in compliance with the inventory

#### 16. OTHER INFORMATION

##### Further information

Other information	:	This data sheet contains changes from the previous version in section(s): Physical and chemical properties
Date format	:	yyyy/mm/dd

##### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CN OEL	:	Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.

ACGIH / TWA	:	8-hour, time-weighted average
CN OEL / TWA	:	Time weighted average
CN OEL / PC-TWA	:	Permissible concentration - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and

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Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

#### Disclaimer

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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