 Omsk Carbon Group	SAFETY DATA SHEET	Page : 1 / 11
	Carbon Black	Revision nr : 1.4 Issue date : 04/05/2018

According to Article 31 of the Regulation (EC) No 1907/2006 (REACH), a Safety Data Sheet (SDS) must be provided for hazardous substances or preparations. This product does not meet the classification criteria of the Regulation (EC) No 1272/2008 (CLP). Therefore, such document is outside the scope of Article 31 of REACH and the requirements for content in each section do not apply.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance
Trade name/designation : Carbon Black
EC No : 215-609-9
CAS No. : 1333-86-4
REACH registration No : 01-2119384822-32-XXXX
Product code : **Carbon black grades:** N115, N120, N121, N134, N220, N220FA, N234, N299, N326, N330, N339, N347, N375, N539, N550, N650, N660, N762, N772, N774.
OMCARB[®] line grades: S500, S500A, S500FA, S600FA, S700, S800, S810, S820, H80, H100, C40, C50, C60, C70, C80, C140, CH85, CH200, CH210, CH600, P72, P80, P108, P110, P140.
FairBlack line grades: R012, R013, R021, R022, R023, R027, R035, R056, R067.
Synonymes : Furnace black

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Fillers
Pigment
Reagent

1.2.2. Uses advised against

Uses advised against : Pigment tattoo ink

1.3. Details of the supplier of the safety data sheet

Supplier

Techuglerod Kft
Pauler utca 12 szam, 3 emelet, 1 ajto
1013 Budapest - HUNGARY
T +36-1-217-68-02 - F +36-1-217-68-02
techuglerod@gmail.com

Manufacturer

Omsk Carbon Group OOO
17, building No. 1, Pushkin street, Omsk,
Russia
T +7 (3812) 42-72-78
office@omskcarbon.com - Larisa.Kokorina@omskcarbon.com

1.4. Emergency telephone number

Emergency number : Omsk Carbon Group OOO Russia: +7 (3812) 42-37-66
Only available during office hours.(8.00 – 17.00 GMT +6)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture


Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Not applicable.

 Omsk Carbon Group	SAFETY DATA SHEET	Page : 2 / 11
	Carbon Black	Revision nr : 1.4 Issue date : 04/05/2018

2.3. Other hazards

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1. Substance

Substance name : Carbon Black
CAS No. : 1333-86-4
EC No : 215-609-9

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
carbon black	(CAS No.) 1333-86-4 (EC No) 215-609-9 (REACH-no) 01-2119384822-32-XXXX	100	Not classified

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

Additional advice : First aider: Pay attention to self-protection. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person or a person with cramps. In case of doubt or persistent symptoms (Section 4.2), consult always a physician. Show this safety data sheet to the doctor in attendance. Treat symptomatically.

Inhalation : Remove person to fresh air and keep comfortable for breathing. In case of doubt or persistent symptoms, consult always a physician.

Skin contact : Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.

Eye contact : Rinse immediately carefully and thoroughly with eye-bath or water. In case of doubt or persistent symptoms, consult always a physician.

In case of ingestion : Do NOT induce vomiting. If swallowed, rinse mouth with water (only if the person is conscious). Never give anything by mouth to an unconscious person or a person with cramps. In case of doubt or persistent symptoms, consult always a physician.

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

Inhalation : The following symptoms may occur: Cough.

Skin contact : The following symptoms may occur: Irritation, Dry skin.

Eye contact : The following symptoms may occur: Dust contact with the eyes can lead to mechanical irritation, tears.

Ingestion : Ingestion is not considered a potential route of exposure.


4.3. Indication of any immediate medical attention and special treatment needed

Not required

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : carbon dioxide (CO₂), powder, alcohol-resistant foam, hazy water.
Unsuitable extinguishing media : Strong water jet.

 Omsk Carbon Group	SAFETY DATA SHEET	Page : 3 / 11
	Carbon Black	Revision nr : 1.4 Issue date : 04/05/2018

5.2. Special hazards arising from the substance or mixture

- Specific hazards : May not be obvious that product is burning unless material is stirred and sparks are apparent.
- Hazardous decomposition products in case of fire : Carbon monoxide. Carbon dioxide. Sulphur oxides.

5.3. Advice for firefighters

- Firefighting instructions : Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire-fighting water from entering environment. May not be obvious that product is burning unless material is stirred and sparks are apparent. Be careful, the product may re-ignite (48h).
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
- Other information : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation. Forms slippery/greasy layers with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- For non-emergency personnel : Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Avoid contact with skin and eyes. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

6.1.2. For emergency responders

- For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Knock down/dilute dust cloud with water spray. Forms slippery/greasy layers with water.
- Methods for cleaning up : Clean-up methods - small spillage: Dust deposited may be vacuum cleaned (HEPA-filter). Clean-up methods - large spillage: Take up mechanically, placing in appropriate containers for disposal. Shovel into suitable and closed container for disposal. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). This material and its package must be disposed of in a safe way, and as per local legislation. Delivery to an approved waste disposal company.


6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Disposal: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Avoid contact with skin and eyes. Take any precaution to avoid contact with Incompatible materials. Avoid release to the environment. Use vacuum to remove dust directly during formation. (HEPA-filter). Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately grounded. Fine dust is capable of penetrating electrical equipment and may cause electrical shorts. Avoid exceeding of the given occupational exposure limits (carbon black, carbon monoxide). Prevent deposition of dust.

 Omsk Carbon Group	SAFETY DATA SHEET	Page : 4 / 11
	Carbon Black	Revision nr : 1.4 Issue date : 04/05/2018

Hygiene measures : Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking. Take food in areas specially designed for the purpose. Shower at the end of working. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Equipment and conveyor systems shall be earthed.
Electrical equipment that is at risk of carbon black dust penetration shall be furnished with tight seal or shall be periodically flushed with compressed air. See section 10.4.

Storage conditions : Store carbon black in conditions preventing it from contamination and moisture attack (precipitation and other sources of water, high humidity environment). Keep away from heat and ignition sources. Do not store with incompatible materials.
Prevent deposition of dust on surfaces. In sufficient concentrations carbon black dust may form explosible mixture in air.
It is recommended to store packed carbon black in a warehouse for packaged products. Bulk carbon black shall be stored in bulk storage tanks.
It is recommended to organize long carbon black storage (more than 1 month) in indoor warehouses equipped with ventilation systems ensuring temperature within the range of +15°C - +25°C and relative humidity of the air not exceeding 40%.

Precautionary measures when entering confined spaces : Ventilate confined spaces, where carbon black is stored, before entering, test for adequate oxygen, flammable gases and potential toxic air contaminants (CO).

Packaging materials : Suitable materials: polyethylene valve bag, polypropylene big-bags. It is acceptable to use another containers and packing that prevents humidifying of the product and ensures its safety during storage.

Incompatible materials : Strong oxidizers, e.g. chlorates, nitrates, bromates; volatile substances.

Storage duration : 12 months


7.3. Specific end use(s)

Risk management measures : Per Article 14.4 of the REACH Regulation no exposure scenario has been developed as carbon black is not classified as hazardous substance.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

carbon black (1333-86-4)		
Belgium	Limit value (mg/m ³)	3,5 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	3,5 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	7 mg/m ³
Czech Republic	Expoziční limity (PEL) (mg/m ³)	2,0 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	3,5 mg/m ³
Estonia	OEL TWA (mg/m ³)	3 mg/m ³
Finland	HTP-arvo (8h) (mg/m ³)	3,5 mg/m ³
Finland	HTP-arvo (15 min)	7 mg/m ³
France	VME (mg/m ³)	3,5 mg/m ³
Greece	OEL TWA (mg/m ³)	3,5 mg/m ³
Greece	OEL STEL (mg/m ³)	7 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	3,5 mg/m ³
Ireland	OEL (15 min ref) (mg/m ³)	7 mg/m ³
Italy	OEL TWA (mg/m ³)	3,5 mg/m ³
Poland	NDS (mg/m ³)	4,0 mg/m ³
Portugal	OEL TWA (mg/m ³)	3,5 mg/m ³

 Omsk Carbon Group	SAFETY DATA SHEET	Page : 5 / 11
	Carbon Black	Revision nr : 1.4 Issue date : 04/05/2018

carbon black (1333-86-4)		
Slovakia	NPHV (priemerná) (mg/m ³)	2 mg/m ³ (respirable fraction, 5% or less fibrogenic component) 10 mg/m ³ (respirable fraction, greater than 5% fibrogenic component) 10 mg/m ³ (total aerosol)
Spain	VLA-ED (mg/m ³)	3,5 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	3 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	3,5 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	7 mg/m ³
Norway	Grenseverdier (AN) (mg/m ³)	3,5 mg/m ³
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	3,5 mg/m ³
Australia	TWA (mg/m ³)	3 mg/m ³
Canada (Ontario)	TWA (mg/m ³)	3 mg/m ³
Canada (Quebec)	VEMP (mg/m ³)	3,5 mg/m ³
USA - ACGIH	ACGIH TWA (mg/m ³)	3 mg/m ³
USA - IDLH	US IDLH (mg/m ³)	1750 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	3,5 mg/m ³
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	3,5 mg/m ³
Bulgaria	TWA (ACGIH"TLV) (mg/m ³)	3.5 mg/m ³
Germany	MAK (mg/m ³)	1.0 mg/m ³ (respirable, as annual average); 4.0 mg/m ³ (inhalable, as annual average)
Germany	TRGS 900 (mg/m ³)	6.0 mg/m ³ (respirable); 10 mg/m ³ (inhalable, as 8hr TWA)
Hungary	OEL TWA (mg/m ³)	3.5 mg/m ³
Japan-JSOH	OEL TWA (mg/m ³)	4.0 mg/m ³ 1.0 mg/m ³ (respirable);


8.2. Exposure controls

Engineering control measures	: Provide adequate ventilation. Organisational measures to prevent /limit releases, dispersion and exposure. Safe handling: see section 7.
Personal protection equipment	: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hand protection	: Use protective skin cream before handling the product.
Eye protection	: Use suitable eye protection. (EN166): Safety glasses with side shields
Body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Effective dust mask (EN 149): FFP2
Thermal hazard protection	: Not required for normal conditions of use.
Environmental exposure controls	: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Pellets
Colour	: Black.
Odour	: odourless.

 Omsk Carbon Group	SAFETY DATA SHEET	Page : 6 / 11
	Carbon Black	Revision nr : 1.4 Issue date : 04/05/2018

Odour threshold	: Not applicable
pH	: 6 - 9
Relative evaporation rate (butylacetate=1)	: Not applicable
Melting point/freezing point	: Not applicable
Freezing point	: Not applicable
Initial boiling point and boiling range	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: > 140 °C
Decomposition temperature	: Not determined
Flammability (solid, gas)	: Not applicable
Vapour pressure	: Not applicable
Vapour density	: Not applicable
Relative density	: No data available
Density	: 1,7 - 2,1 g/cm ³ (20°C)
Solubility	: Insoluble in oils/fats. Water: Insoluble
Partition coefficient n-octanol/water	: Not applicable
Kinematic viscosity	: Not applicable
Dynamic viscosity	: Not applicable
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable. The study does not need to be conducted because there are no chemical groups present in the molecule, which are associated with oxidising properties.
Explosive limits	: LEL: 50 g/m ³ - UEL: Not determined (Dust)

9.2. Other information

Minimum ignition energy	: > 1 kJ
Minimum ignition temperature	: >500°C (>932°F) (BAM), cloud
Dust explosion class (VDI 2263, EC 84/449)	: ST 1
Dust deflagration index (Kst)	: 1.8 – 4.3 MPa·m/s
Maximum explosion pressure	: 700 kPa
Maximum rate of pressure rise	: 6.8-16.1 MPa/s
Burning rate (VDI 2263, EC 84/449)	: >45 s

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions. Reference to other sections: 10.4 & 10.5.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions


Hazardous polymerisation does not occur. Exothermic reaction on contact with: Strong oxidizing agents.

10.4. Conditions to avoid

Extremely high temperatures (>300°C). Storage and contact with incompatible materials. Take precautionary measures against static discharge. Prevent deposition of dust. Do not create a dust cloud by using a brush or compressed air. Carbon black dust may form explosive mixture in air. Safe handling: see section 7.

10.5. Incompatible materials

Strong oxidizers, e.g. chlorates, nitrates, bromates; volatile substances. Safe handling: see section 7.

 Omsk Carbon Group	SAFETY DATA SHEET	Page : 7 / 11
	Carbon Black	Revision nr : 1.4 Issue date : 04/05/2018

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. At high temperatures releases: sulphur oxides. Reference to other sections: 5.2.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met.)

carbon black (1333-86-4)	
LD50/oral/rat	> 8000 mg/kg

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met.)
Rabbit
Non-irritating to the skin indice 0,6/8
pH: 6 - 9

Serious eye damage/eye irritation : Not classified (Based on available data, the classification criteria are not met.)
Rabbit :
Draize Test
Non-irritating to the eyes (10-17/110 (24h)
pH: 6 - 9

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met.)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met.)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met.)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met.)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met.)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met.)
rats, Inhalation, 2 years - Effects - Symptoms, Lungs: Inflammation, Causes fibrosis and lung tumours in laboratory animals.
mice/Hamster, Inhalation, 12-24 months - Effects - Symptoms, Lungs: Tumour Will not occur.
rats, oral, 2 years - Effects - Symptoms: Tumour Will not occur.
mice, Dermal, 18months - Effects - Symptoms, Skin: Tumour Will not occur.

carbon black (1333-86-4)	
NOAEL (inhalation, rat, dust/mist/fume, 90 days)	1 mg/m ³ Lungs, Effects - Symptoms: Inflammation, hyperplasia, Causes fibrosis and lung tumours in laboratory animals.

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met.)

Other information : Carcinogenicity: IARC (2B)
ACGIH (A3)


SECTION 12: Ecological information

12.1. Toxicity

Environmental properties : According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".

Carbon Black (1333-86-4)	
EC50 72h algae (1)	> 10000 72h (Scenedesmus subspicatus - OECD 201)
NOEC chronic algae	> 10000 mg/l 72h (Scenedesmus subspicatus - OECD 201)
EC3h, Activated sludge	> 800 mg/l (DEV L3 (TTC test))

carbon black (1333-86-4)	
LC50 fish 1	> 1000 mg/l Brachydanio rerio (zebra-fish) (96h) (OECD 203)
EC50 Daphnia 1	> 5600 Daphnia magna (Big water flea) (24h) (OECD 202)

 Omsk Carbon Group	SAFETY DATA SHEET	Page : 8 / 11
	Carbon Black	Revision nr : 1.4 Issue date : 04/05/2018

12.2. Persistence and degradability

Carbon Black (1333-86-4)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

Carbon Black (1333-86-4)	
Partition coefficient n-octanol/water	Not applicable
Bioaccumulative potential	Bioaccumulation unlikely.

12.4. Mobility in soil

Carbon Black (1333-86-4)	
Mobility in soil	Insoluble

12.5. Results of PBT and vPvB assessment

Carbon Black (1333-86-4)	
This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).	
This substance is not considered to be very persistent nor very bioaccumulating (vPvB).	

12.6. Other adverse effects

Other adverse effects : According to experience not expected. Not dangerous for the ozone layer.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations : Do not allow to enter into surface water or drains.
Waste disposal recommendations : Avoid release to the environment. Can be disposed as a solid waste or burned in a suitable installation according to local legislation. Dispose of wastes safely. Safe handling: see section 7. Handle contaminated packages in the same way as the substance itself.
List of proposed waste codes/waste designations in accordance with EWC (2000/532/EC) : 06 13 03 carbon black

SECTION 14: Transport information

As a part of works to bring carbon black's transport hazard classification in compliance with international requirements, Omsk Carbon Group tested its 6 product samples of various particle sizes and structural properties for self-heating according to the UN method. Based on the results of the tests conducted, carbon black is not a self-heating substance. Being a product of thermal decomposition of liquid hydrocarbon feedstock, carbon black meets the definition of "carbon, non-activated, mineral origin".

14.1. UN number

Absent


14.2. UN proper shipping name

Proper Shipping Name : Not applicable

14.3. Transport hazard class(es)

Carbon, non-activated, mineral origin is not classified as "hazardous cargo" under the following regulations:

RID
ICAO-IT
ADR
ADNR
DOT
IATA
TDG
IMDG

 Omsk Carbon Group	SAFETY DATA SHEET	Page : 9 / 11
	Carbon Black	Revision nr : 1.4 Issue date : 04/05/2018

Requirements of International Maritime Dangerous Goods Code (IMDG Code), Chapter 3.3., special provision 925 shall not apply to "carbon, non-activated, mineral origin".

14.4. Packing group

Packing group (ICAO-IT) : Not applicable
Packing group (ADNR) : Not applicable
Packing group (DOT) : Not applicable
Packing group (TDG) : Not applicable
Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

Special precautions for user : Observe conditions to preserve containers and packing undamaged and tightly closed.

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

Annex II of MARPOL 73/78 : Not applicable.
Code: IBC : Not applicable.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions
Carbon Black is not on the REACH Candidate List
Carbon Black is not on the REACH Annex XIV List

15.1.2. National regulations


Switzerland : Nontoxic: G-8938.

Germany

WGK remark : Non-hazardous to water
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed
SZW-lijst van mutagene stoffen : The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed

 Omsk Carbon Group	SAFETY DATA SHEET	Page : 10 / 11
	Carbon Black	Revision nr : 1.4 Issue date : 04/05/2018

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

15.2. Chemical safety assessment


EU Chemical Safety Assessment : Per Article 14.1 of the REACH Regulation a Chemical Safety Assessment has been carried out.

EU Exposure Scenarios : Per Article 14.4 of the REACH Regulation no exposure scenario has been developed as carbon black is not classified as hazardous substance.

SECTION 16: Other information

Abbreviations and acronyms:

	ABM = Algemene beoordelingsmethodiek
	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	BTT = Breakthrough time (maximum wearing time)
	DMEL = Derived Minimal Effect level
	DNEL = Derived No Effect Level
	EC50 = Median Effective Concentration
	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	EWC = European waste catalogue
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LL50 = Median lethal level
	NA = Not applicable
	NOEC = No observed effect concentration
	NOEL: no-observed-effect level
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	N.O.S. = Not Otherwise Specified
	OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	PNEC = Predicted No Effect Concentration
	Quantitative structure-activity relationship (QSAR)
	STOT = Specific Target Organ Toxicity
	TWA = time weighted average
	VOC = Volatile organic compounds
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)
	IARC = International Agency for Research on Cancer

 Omsk Carbon Group	SAFETY DATA SHEET	Page : 11 / 11
	Carbon Black	Revision nr : 1.4 Issue date : 04/05/2018

	ACGIH = American Conference of Governmental Industrial Hygienists
	HEPA = High-efficiency particle absorption

Sources of key data used to compile the datasheet : Name (SDS) : Carbon Black. Manufacturer/Supplier : Omsk Carbon Group OOO.

Other information : In the event of any conflict between the English and other language versions, the English version shall prevail.

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