

according to Regulation (EU) No 2015/830

Carbon black

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	
Substance name	Carbon black
Trade name	Carbon black grades P803, P805, P514, N550, N650, N660,N772, N774, N762, P701, P 705, T900, N990, N991
ES#	215-609-9
IUPAC	Carbon black
CAS#	1333-86-4
Structural Formula	C
REACH No:	01-2119384822-32-XXXX

1.2 Relevant identified uses of the substance or mixture and uses advised against		
General use	A filler for rubber in the manufacture of rubber products. Filler for plastics in the production of plastic products, including mixing processes and transformation. The pigment in the manufacture of textiles, leather, fur, pulp, paper, substances, fine chemicals, rubber products other non-metallic mineral products, e.g. plasters, cement. Reagent in the production of a large range of chemicals (including petroleum products), chemical products of fine organic synthesis, base metals, metal products, except machinery and equipment. The refractories in the production of a large spectrum of chemical substances, chemical products of fine organic synthesis, nonferrous metals, and also as a component of mixtures. Energy for the production of computers, office equipment, electrical equipment.	
restriction of use	Not recommended as a human tattooing pigment	



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1.3 Details of the Manufacturer/supplier

Manufacturer name	«TUYMAZYTEHUGLEROD» JSC 452750, 81, Chapaeva street, Tuymazy, Russia +7 (34782) 5-19-80 sekretar@tztu.ru	
Only-Representative	"Planimpex" GmbH Uhlenhorster Weg 21 22085 Hamburg Telefon 0049 40 28807466 Telefax 0049 40 28807477 P. Lubenov	
Contact person	Chief engineer A.I. Magdych +7 (34782) 5-19-80.	
1.4. Emergency telephone number:	+7(34782) 5-19-80	

2. Hazards identification.

2.1 Classification of the substance o	r mixture
Not classified	
Potential Health Effects	
Inhalation	
	Temporary discomfort to upper respiratory tract may occur due to mechanical irritation when exposures are well above the occupational exposure limit. Long-term exposure may result in a small non-clinically significant increase in normal loss in one aspect of lung function.
Eye	High dust concentrations may cause mechanical irritation to eye.
Skin	May cause mechanical irritation, soiling and drying of skin
Ingestion	No evidence of adverse effects from available data
2.2 Label elements	i and a second and a second actual
Not applicable	
2.3 Other hazards	
No special environmental precautions	required. Not soluble in water.



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3. COMPOSITION/INFORMATION ON INGREDIENTS.

3.1.Substances		
Substance name	Carbon black	
CAS №	1333-86-4	
EC №	215-609-9	

Chemical Name (IUPAC)	Weight, %	EU Classification
Углерод	96-99,9	None

3.2. Mixtures	
Not applicable	

4. FIRST AID MEASURES

I INOT THE PIEMBORES		
4.1. Description of first aid measures		
	Following inhalation: Remove person to fresh air, to create the conditions for breathing. In the case you need to restore breathing by resorting to the standard measures of first aid.	
General informations	Following eye contact: Flush eyes immediately with large amounts of water for 15 minutes. Seek medical attention if symptoms develop.	
	Following ingestion: Do not induce vomiting. If conscious, give several glasses of water. Never give anything by mouth to an unconscious person.	
1	Following skin contact: Wash thoroughly with soap and water. Seek medical attention if symptoms develop.	

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

Following inhalation	Coughing, wheezing and shortness of breath
Following eye contact	Redness, minor irritation
Following skin contact	Dry skin
Following ingestion	None
Notes for the doctor	Treat symptomatically
The first aid tools	Universal medical kit with a set of drugs and a
Source Developer	moisturizer.



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

None

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

5.1. Extinguishing nicula	
	Carbon black is hardly combustible substance. It may
	not be obvious that carbon black is burning unless the
	material is stirred and sparks are apparent. Carbon black
NOT SELECTION OF S	that has been on fire should be observed closely for at
1 9 = 1 = 1	least 48 hours to ensure no smoldering material is
Flammability	present.
	Product decomposition temperature >300°C.
	Carbon blacks containing more than 8% volatile
	materials may form an explosive dust-air mixture.
	Manufactured carbon blacks do not exceed 8% volatile
	materials content.
	Use foam, carbon dioxide (CO2), nitrogen (N2), dry
Suitable extinguishing media	chemical or water spray. A fog spray is recommended if
S. y	water is used.
	DO NOT USE a solid water stream as it may scatter and
Unsuitable extinguishing media	spread fire.
	A Company of the Comp

5.2. Special hazards arising from the substance or mixture

	Carbon monoxide, Carbon dioxide, Sulphur oxides,
Hazardous combustion products	Organic products of combustion.
Средства индивидуальной защиты во	Wear suitable protective equipment. In the event of fire,
время пожаротушения	wear self-contained breathing apparatus.

5.3. Advice for fire-fighters

Wet carbon black produces very slippery walking surfaces. It may not be obvious that carbon black is burning unless the material is stirred and sparks are apparent. Carbon black that has been on fire should be observed closely for at least 48 hours to ensure no smoldering material is present. Burning produces irritant fumes.

6. ACCIDENTAL RELEASE MEASURES.

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. Emergency procedures

Avoid contacting the product with open ignition sources, sparks, high-temperature objects, strong oxidizers (chlorates, bromates and nitrates).

Do not heat the product to a temperature >3000C Control of the material content in the air in the working area.



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6.1.2. Personal protective equipment

Wear personal protective equipment and use respiratory rotection. Clean up promptly by vacuum. Use of a vacuum with high efficiency particulate air (HEPA) filtration is recommended

6.2. Environmental precautions

Carbon black poses no significant environmental

hazards. As a matter of good practice, minimize contamination of sewage water, soil, groundwater, drainage systems, or bodies of water.

Carbon black is not a hazardous substance under the Comprehensive Environmental Response, Compensation and Liability- Act (CERCLA, 40 CFR 302), or the Clean Water Act (40 CFR 116), or a hazardous air pollutant under the Clean Air Act Amendments of 1990 (CAAA-90, 40 CFR 63).

6.3. Methods and material for containment and cleaning up

Small spills should be vacuumed when possible.

Dry sweeping is not recommended except with HEPA equipped machinery. A vacuum equipped with HEPA (high efficiency particulate air) filtration is recommended. If necessary, light water spray will reduce dust for dry sweeping but over-wetting may produce very slippery walking surfaces. Large spills may be shoveled into containers.

6.4. Reference to other sections

See Section 13.

See Section 8.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling	
Protective measures	Avoid creating a dust cloud. Avoid dust concentration in the air above the MPC. Avoid contact with skin and eyes. After contact with skin, wash to avoid mechanical irritation and soiling.
Fire preventions:	If hot work (welding, torch cutting, etc.) is required the immediate work area must be cleared of carbon black product and dust.
Aerosol and dust generation preventions	Use local exhaust ventilation to control exposures to below occupational exposure limit.

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Static electricity prevention		Fine dust may cause electrical shorts a penetrating electrical equipment unles			
Precautions for safe transport		Carbon black is not restricted for tran according to the UN recommendation of dangerous goods. It is necessary to transportation of cargoes, which exist mode of transport. Do not break the is container. During loading and unload instructions and rules for these types of Section 14).	s on the transpo observe rules of for the respect ntegrity of the ing follow the	of	
Advice on general occupational hygiene		Do not eat, drink or smoke in work areas. Wash hands after handling, remove contaminated clothing and protective equipment before entering dining rooms.			
7.2. Conditions for safe storage, inclu	ding any	incompatibilities			
Technical measures and storage cond	itions	Keep in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Do not store together with strong oxidizing agents.			
Packaging materials		Paper and polyethylene valve bags, flexible polypropylene containers of big-bag type. Use of other containers and packages is permitted while they prevent product moistening and keep it safe while transporting and storing.			
Requirements for storage rooms and vessels		Special requirements for storage structive required. The product stored at the ten humidity of the environment. Before exarehouse test the content of oxygengases, potentially hazardous pollutants air.	nperature and entering the closen, combustible		
7.3. Specific end uses					

None



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8.EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

Limit value Source type (country of origin)	Substance name	EC-№	CAS №	Test method	1	Short term
Belgium (VLEP)					3,5	
Danmark (OEL)					3,5	7
Finland (OEL)					3,5	7
France (VLE)					3,5	
Ireland (OEL)		215-609-			3,5	7
Spain (VLA)					3,5	
Sweden (OEL)					3	
Great Britan (WEL)					3,5	7
USA-OSHA (PEL)	Carbon black	9	1333-86-4	Gravimetry	3,5	
Argentina (OEL)		9			3,5	
Brazil (OEL)					3,5	
Venezuela (OEL)					3,5	
South Korea(OEL)					3,5	
The DPRK (OEL)					4	
Canada (VEA)					3,5	
Norway (OEL)					3,5	
Russia (ПДК)					4	
Japan (OEL)					4	

DNEL/PNEC-values

The derived no effect level (DNEL) is the level of exposure to a substance above which humans should not be exposed.

The Predicted No Effect Concentration (PNEC) is the concentration of a chemical which marks the limit at which below no adverse effects of exposure in an ecosystem are measured.

Worker		Exposure	
Industry	Consumer	route	
DNEL= 2 mg/m ³		Inhalation	



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PNEC values:

Exposure route	Value, mg/l	Exposure frequency	Remark
water (fresh)	5	1000	
water (sea)	5	1000	

8.2 Exposure controls

8.2.1. Appropriate engineering controls

8.2.1. Appropriate engineering controls			
	Ensure adequate ventilation to maintain exposures		
	below occupational limits.		
Appropriate engineering controls	Provide appropriate exhaust ventilation at machinery		
	and at places where dust can		
	be generated.		
	An approved air-purifying respirator (APR) for		
	particulates may be permissible where		
	airborne concentrations are expected to exceed		
	occupational exposure limits.		
	Protection provided by air-purifying respirators is		
	limited. Use a positive-pressure, air		
Respiratory protection	supplied respirator if there is any potential for		
respiratory protection	uncontrolled release, exposure levels		
12 3 · 2 · .	are not known, or any circumstances where air-purifying		
	respirators may not provide		
	adequate protection. Use of respirators must include a		
	complete respiratory		
The state of the s	protection program in accordance with national		
	standards and current best practices.		
Eye / Face protection	Wear eye/face protection. Safety glasses with side-		
Eye race protection	shields. Goggles.		
	Wear protective gloves to prevent soiling of hands. Use		
Skin protection	protective barrier cream		
provention	before handling the product. Wash hands and other		
	exposed skin with mild soap and water.		
	Handle in accordance with good industrial hygiene and		
Personal hygiene	safety practice. Emergency eyewash and safety shower		
de la companya de la	should be located nearby.		

	No significant environmental hazards are associated
Measures to prevent	with carbon black release to the environment. Carbon
a Page	black is not soluble in water.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Important health, safety and environmental information

Appearance:	powder or pellet		
Colour	black		
Odour	odorless		
Odour threshold	Not applicable		
pН	6-11 [50 g/l water, 68°F (20°C)]		
Melting point/range, ⁰ C not applicable			

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Initial boiling point/range, °C	Not applicable				
Flash point, °C	Not applicable				
Ignition temperature, °C	> 600				
Self-Ignition temperature, ⁰ C	>140				
Decomposition temperature, ⁰ C	not applicable				
Evaporation rate	Not applicable				
Flammability	not applicable				
Explosive Limits (dust):					
Lower 50 g/m3	50 g/m3	50 g/m3			
Upper not determined	not determined				
Vapour pressure (hPa) at 20°C):	Not applicable				
Vapour density (air=1)	Not applicable				
Density (g/cm3) at 20°C:	1,8-1,98	-			
Water solubility (20°C in g/l):	Not applicable				
n-Octanol/Water (log Po/w)	Not applicable				
Viscosity, dynamic (mPa s):	Not applicable				
9.2. Other safety information					
Ignition Energy, кJ 20					
Maximum Rate of Pressure Rise	46 bar/sec.				

10. STABILITY AND REACTIVITY.

10.1 Reactivity	stable under normal ambient conditions
10.2 Chemical stability	stable under normal ambient conditions
10.3 Possibility of hazardous reactions	None
10.4 Conditions to avoid	exposure to high temp. >572°F (>300°C) and open flames
10.5 Incompatible materials	strong oxidizers such as chlorates, bromates, and nitrates
10.6 Hazardous decomposition products	carbon monoxide, carbon dioxide, organic products of decomposition, oxides or sulfur (sulfoxides) form if heated above decomposition temperature

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicokinetics, metabolism and distribution

Small quantities of technical carbon was discovered in the feather platelets after oral administration. The absorption and retention of carbon black particles in lung macrophages have been detected after inhalation. It is unlikely that the insoluble particles are able to penetrate through the skin.



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12. Ecological information

12.1 Toxicity

Aquatic toxicity

Substance name	Target of toxicity	Value mg/l	Time, hours	Species	Method
	Acute fish toxicity	LC50> 5000	96	Brachy danio rerio	OECD Guideline 203
	Acute daphnia toxicity	EC50> 5600	48	Daphnia magna	OECD Guideline 202
Carbon black	Acute algae toxicity	EC50> 10,000	72	Desmodesm us subspica tus	OECD Guideline 201
	Toxicity for microorganisms	EC10= 800	3	sludge	Deutsche Einheitsverfah ren zur Wasseruntersuchu ng (1975) DEV L3 (TTC-Test)

12.2 Persistence and degradability Abiotic Degradation

Not expected to degrade

Biodegradation

Unknown

12.3 Bioaccumulative potential

Not expected due to physicochemical properties of the substance.

12.4 Mobility in soil

Not expected to migrate. Insoluble.

12.5 Results of PBT and vPvB assessment

This substance does not fulfill the criteria for PBT or vPvB



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Delay cleaning of particles from the rats respiratory tract exposed with more than 0.5-1 mg/g of lung or 7 mg/m3 ("lung overflow"). The translocation of "ultrafine" (around 100 nm) carbonaceous particles from the lungs into the systemic circulation was not detected.

Acute toxicity

Acute toxicity		·				
	Effect dose	Impact time	Species	Method		
Acute oral toxicity	LD>8000 мg/кg	probe	rat	OECD Guideline 401		
Acute inhalative toxicity	LCO> 4,6 Mg/M ³	4 hours	rat	Acceptable, well documented publication		
		Skin corrosion/				
		irritation	None			
T		Serious eye	Weak mechanical irritation of the			
Irritation		damage/irritation	conjunctiva and the eyelid			
y		Irrtation to				
		resipiratory tract	None			
Respiratory or skin sensitisation		None				
Mutagenicity:	Mutagenicity:		None			
		None				
Carcinogenicity		IARC has classifiable Carbon black in group 2, although other studies indicate the inadequacy of such a classification.				
Toxicity for reprodu	ction	None				
STOT-SE, STOT-RI	£	No expected toxic effects on target organs				

Chronic toxicity

Substance name		Value	Time	Species	Метод
Carbon black	Inhalation	NOAEL= 1,1 mg/m³	13 weeks	Rat	Acceptable, well documented publication



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13. DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods		
Product disposal	Product, as supplied, should be disposed of in accordance with the regulations issued by the appropriate federal, state and local authorities.	
Waste codes / waste designations according to EWC / AVV	RCRA Classification (40 CFR 261): Not a hazardous waste.	
Packaging disposal	Return reusable containers to manufacturer. Paper packaging can be disposed of at suitable landfills in accordance with the Rules.	

14. TRANSPORT INFORMATION.

Not classified as a "hazardous cargo".

Not classified as a mazardous cargo.	
14.1 UN-No	Not applicable
14.2 Proper shipping name	Not applicable
14.3 Class(es)	Not applicable
14.4 Packing group	Not applicable
14.5 Hazard label(s):	Not applicable
14.6 Special precautions for user	Not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable
14.8 Additional information	Carbon black is not a subject for any limitations on transportation in accordance with the rules of transportation of dangerous substances in Canada and

15. REGULATORY INFORMATION

15.1.1 EU regulations

No restrictions by Annex XVII REACH
Carbon black is not in the SVHC REACH.
Carbon black is not in the list of Annex XIV REACH.



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15.1.2. National regulations

Switzerland	non-toxic G-8938
Germany	water classification.WGK Number (Kenn-Nr): 1742. WGK Class (Wassergefährdungsklasse): nwg (non-hazardous to waters). Not a hazardous substance as defined by the Chemicals Act or Hazardous Substance Ordinance.
EU	Classification: Not defined as a dangerous substance or preparation according to Council Directive 67/548/EEC and its various amendments and adaptations.
Canada	Canadian Domestic Substances List
USA	U.S. Toxic Substances Control Act (TSCA)
Malaysia	Ministry of international trade and industry
Australia	Australian Inventory of Chemical Substances (AISC)

15.2 Chemical Safety Assessment - Unknown

16. OTHER INFORMATION

16. OTHER INFORMATION			
Training advice	Carefully read the MSDS before use.		
	NOAEL - no adverse event level		
	LD50- lethal dose		
	LC0- lethal concentration for 0 percent of animals used		
Abbreviations and acronyms	for testing LC50- Median lethal concentration		
	EC50- Effective concentration for inhibition of 50% of isolates		
	PBT or vPvB- Persistent, Bioaccumulative, and Toxic or very Persistent and very Bioaccumulative		
Disclaimer	The data and information presented herein corresponds to the present state of our knowledge and experience and is intended to describe our product with respect to possible occupational safety and health concerns. The user of this product has sole responsibility to determine the suitability of the product for any use and manner of use intended, and for determining the regulations applicable to such use in the relevant jurisdiction. This SDS is updated on a periodic basis in accordance with applicable health and safety standards.		
	ECHA Chemicals database		
Key literature references and sources for data	GESTIS Chemicals database		
Further information	In the event of a discrepancy between the information on the non-English document and its English counterpart, the English version shall supersede.		



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A.I. Magdych