

In accordance with US Hazard Standard: 29 CFR 1910.1200 (2012)

BLACK-7 Rev. Date: 20 Aug 2018

Product Identifier BLACK-7 CAS# Mixture Product Description (active chemical) Carbon Black; Furnace Black CAS#1333-86-4 Active Solids = 32.0% Synony(M) (Active chemical) Carbon Black; Furnace Black CAS#1333-86-4 Image: Company Active Solids = 32.0% Relevant Uses Additive;filler for ubber, paper and various applications. Image: Company Active Active Solids = 32.0% Steed addised againsi Not applicable. Tell. (718) 599-7857 Section 2 Mazard Mack. Non-Hazardous Carbon black's combustible dust hazard is minimized as an aqueous dispersion.* GHS Classification Mixture Non-Hazardous Carbon black's combustible dust hazard is minimized as an aqueous dispersion.* Frecautionary Statements None Percentage of mixture consisting of ingredients of unknown toxicity: 0% Precautionary Statements Prevent the formation and/or accumulation of dust form diried material to minimize explosive dust-air combustible dust concentrations in air. Keep away from all ignition sources including heat, sparks and flame. Oshda - Respires and variance above 300°C. Hazard Statements 0 None Percentage on unimize explosive bust ard carbon black as OSHA Hazard Standard (29 CFR 1910.1200) regulates for arbon, suffur and organic products. Mixture 0	Section 1 Identification	
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Section 3 Composition and Information or	n Ingredients		
Product Description	<u>Mixture</u>	Occupational e	exposure limits, are listed in Section 8.
Ingredient(s)	CAS#	<u>% by Weight</u>	Classification (of ingredient)
Water	7732-18-5	65-67	Not classified
Carbon Black	1333-86-4	31-33	OSHA, combustible dust
Sodium polynaphthalenesulfonate	9084-82-6	1 - 3	Not classified

Potential Health Effects

Eyes	May c	ause mechanical eye irritation.
Skin	May c	ause mechanical skin irritation, soiling and drying of skin. Not expected to cause skin sensitization in humans.
Inhalation	Expos	ure to dust particles generated from dried dispersion may cause irritation of the respiratory tract.
Ingestion	Adver	se effects are not expected. See Section 11.
Carcinogenicity	/	Carbon Black is listed by the IARC as a Group 2B substance (possibly carcinogenic to humans). See Section 11.
Target Organs		Lungs. Formed dust may aggravate existing asthma and respiratory disorders.



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Section 4 First Aid Measures

Description of first-aid measures after exposure

Eyes	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. If irritation persists, call a physician.
Skin	Wash thoroughly with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Launder clothes before reuse.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. If conscious, give several glasses of water. Never give anything by mouth to an unconscious person.
Inhalation	Unlikely as dispersion. Move exposed person to fresh air. If cough or shortness of breath or other breathing problems, move to fresh air. Seek medical attention if symptoms persist. If necessary, restore normal breathing through standard first aid measures.

Most important symptoms / potential effects, acute and delayed

The most important known symptoms and effects are described in Section 2 and/or in section 11.

Over-exposure symptoms/ adverse signs

No data/information reported by chemical manufacturer.

Indication of immediate medical attention and/or special treatment needed if necessary

Note to Physicians: Treat symptomatically.

Section 5 Fire Fighting	Measures
Remarks	This product is a water based mixture, non-flammable and not readily combustible as supplied.
Extinguishing Media	Suitable agent(s): 🗹 Water Spray 🗹 Foam 🗹 Carbon Dioxide 🗹 Dry Chemicals
	Unsuitable for extinguishing agent(s): DO NOT USE solid water stream.
Decomposition Hazard	May form toxic and irritating fumes of oxides of carbon, and sulfur oxides.
Advice to fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Additional Remarks	No specific fire or explosion hazard. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Carbon black produces very slippery walking surfaces.

Section 6-Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Non-Emergency	Follow good industrial hygienic practices with rubber gloves, safety goggles and an approved NIOSH dust/mist respirator when applicable. Provide adequate ventilation if necessary.
Emergency procedure	No action should be taken involving any personnel risk without suitable training. Keep unnecessary / unprotected personnel from entering spill area. Do not touch spilled material; avoid contact with skin, eyes and clothing. Put on appropriate protective equipment, clothing and/or Tyvek type overall.
Personal Protection	Avoid contact with skin, eyes & clothing. Put on appropriate personal protective equipment, e.g. in cases of dust generation wear a respirator. Wear chemically resistant gloves. Use suitable eye protection. Wear suitable coveralls to prevent exposure to the skin. CAUTION: Carbon black produces very slippery walking surfaces.
Environmental	Contained spilled product if possible. Product may discolor (black) water streams and/or sewer systems if spill is not contained. Reporting may be required by local authorities.
Spill Procedure	Prevent further leakage if possible. Spread absorbent material to contain. Spill or vacuum up and place in labeled containers. Avoid creating dust formations, as combustion hazards are possible.
Reference	See Section 7 for information on safe handling. Section 8 for information on personal protection equipment. See Section 13 for disposal information



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Section 7 Handling	and Storage			
Precautions for safe h	andling (See Section 8 for PPE)			
Industrial hygienic	Observe good practices prohibit eating, drinking and smoking in work areas. Wash after handling. Persons with a history of skin sensitization problems should not be exposed to this material. Avoid contact with eyes and skin Launder clothes before reuse.			
Conditions for safe sto	orage, including incompatibilities			
Temperatur	e PROTECT FROM FREEZING! Storage temperature range 50° - 100°F recommended.			
Storag	e Avoid storage of drum in direct sunlight. Keep drums tightly sealed until ready for use.			
Incompatible	s Avoid strong oxidizing agents.			
Maintaining integrity	of the mixture			
Usag	e Mix thoroughly before use. Some settling of material may occur on standing. Mixing provides uniform results.			
Evaporation/spoilag	e Reseal drums tightly when not in use to avoid evaporation, contamination and/or spoilage.			
Empty drum	Empty containers contain product residue and can be hazardous, check regional, national and local regulations. Do not reuse container unless you have determined compatible use.			
Other remark	Spilled carbon black creates very slippery conditions, use caution walking into spill area.			
Section 8 Exposure	Controls and Personal Protection			
Exposure Limits	No specific limits are established dispersion; therefore in the case of brief exposure use of a respiratory filter device is recommended to maintain good industrial hygiene practices to avoid dusts formed from dried dispersion.			
	Recommended filter device for short-term use: <u>US- N95</u> <u>EU- Type A/P2</u>			
Component Limits	Carbon Black CAS# 1333-86-4 OSHA PEL, TWA ACGIH TLV, TWA			

(As a Powder, and/or Dust) 3.5 m Individual protection measures, such as personal protective equipment (PPE)

PPE Observe good practices prohibit eating, drinking and smoking in work areas. Wash thoroughly after handling. Use properly fitted dust/respirator mask. Wear chemical resistant gloves, and approved safety eye protection. Wash clothing after exposure or wear disposal covering.



3.0 mg/m³, Inhalable

Avoid prolonged or repeated skin contact.Wash thoroughly before eating, drinking, smoking or applying cosmetics.RemarksLaunder clothes before reuse.End-User:Determine appropriate safety equipment relative to individual manufacturing process/use.

3.5 mg/m³, TWA

Appropriate engineering controls

Engineering controls are not usually necessary if good industrial hygiene practices are followed.

Section 9 Physical	and Chemical Proper	ties			
Physical State	Liquid, aqueous disp	ersion	Color	Black	
Active Solids	32.0% (±1)		Odor	None - Mild	
pH @ 21°C	8.0 - 11.0		Odor Threshold	Not determine	ed
Viscosity @ 20°C	100 – 1000 cps (#2 Sj	pindle @ 30 rpm)	Freeze / Boiling Pt	0°C (32°F) / 10	0 °C (212°F) (Aqueous Portion)
Specific Gravity	~1.18		Flash Point:	Mixture is not	flammable as supplied
Solubility - Water	solids within dispers	ion are immiscible	Melt Point:	No informatio	n available
Evaporation Rate:	~ 66.0% (as wat	er)	Vapor Pressure / Der	nsity:	No information available
Initial / Range Boiling	g Point: 100	°C / 212°F (water portion)	Decomposition Tem	perature	No information available
Auto-ignition Tempe	rature: Mix	ture is not flammable	Flammability (upper/	lower limits):	Mixture is not flammable
Partition coefficient	, n-octanol/water	No information available			
Other Information /	Remarks	None			



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Section 10 Stability and Reactivity			
Reactivity	No specific test data related to	reactivity available from the chem	ical manufacturer.
Chemical stability	Stable under normal conditions	. Store in original container, keep	drum tightly covered.
Possibility of hazardous reactions	None expected under normal co	onditions of storage or use, hazar	dous reactions will not occur.
Conditions to avoid	DO NOT FREEZE!		
Incompatible materials	Avoid contact with oxidizing age	ents.	
Hazardous decomposition products	Under normal conditions of sto	rage & use, hazardous decomposi	tion product not expected.
Additional information	None available		
Section 11 Toxicological Information	1		
Section 11 Toxicological Information Most likely routes of exposure handlin	n ng this product using good indus	trial hygiene practices:	Eye and skin contact.
Section 11 Toxicological Information Most likely routes of exposure handlin <u>Toxicological Effects Information</u>	n ng this product using good indus	trial hygiene practices:	Eve and skin contact.
Section 11 Toxicological Information Most likely routes of exposure handlin <u>Toxicological Effects Information</u> Acute toxicity	n ng this product using good indus LD50 Oral	trial hygiene practices: LD50 Dermal	Eye and skin contact. LCso Inhalation - 4 hr
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Sensitization			
Carbon Black- CAS# 1333-86-4	Guinea pig skin	Not sensitizing.	Not sensitizing in animals.
	Humans	No cases of sensitization	in humans have been reported.

Germ Cell Mutagenicity

Carbon Black CAS# 1333-86-4

In Vitro: Carbon black is not suitable to be tested in bacteria (Ames test) and other in vitro systems because of its insolubility; however when organic solvent extracts of carbon black has been tested, where results showed no mutagenic effects. Organic solvent extracts of carbon black can contain traces of polycyclic aromatic hydrocarbons (PAHs). A study to examine the bioavailability of theses PAHs showed that PAHs are very tightly bound to carbon black and not bioavailable. (Borm, 2005).

In Vivo: In an experimental investigation, mutational changes in the hprt gene were reported in alveolar epithelial cells in the rat following inhalation exposure to carbon black. This observation is believed to be rat specific and a consequence of "lung overload" (Driscoll, 1997) which lead to chronic inflammation and release of reactive oxygen species. This is considered to be a secondary genotoxic effect and, thus, carbon black itself would not be considered to be mutagenic.

Assessment: In vivo Mutagenicity in rats occurs by mechanisms secondary to a threshold effect and is a consequence of "lung overload", which leads to chronic inflammation and the release of genotoxic oxygen species. This mechanism is considered to be a secondary genotoxic effect and thus, carbon black itself would not be considered to be mutagenic.

Carcinogenicity	Animal Toxicity	Species	Duration	Assessment
Carbon Black	Oral	Rat	2 yrs	No tumors
CAS# 1333-86-4	Oral	Mouse	2 yrs	No tumors
	Dermal	Mouse	18 months	No skin tumors
	Inhalation	Rat	2 yrs	Inflammation, fibrosis, tumors

Note: Tumors in the rat lung are considered to be related to the "lung overload" rather than to a specific chemical effect of carbon black itself in the lung. These effects in rats have been reported in many studies on other poorly soluble inorganic particles, and appear to be rat specific (ILSI, 2000). Tumors have not been observed in other species (i.e., mouse and hamster) for carbon black or other poorly soluble particles under similar circumstances and study conditions.



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		. ,			
Mortality Studies	Human Data: B Cancer (IARC) co results of detail been demonstra	ased upon studies oncluded that the ed investigations, r ated.	, the February 20 human evidence no causative link l	06 Working G for carcinoge between carb	roup at the International Agency for Research on nicity was inadequate (IARC, 2010). Overall, as a on black exposure and cancer risk in humans has
Reference:	Sorahan 2001; N	Morfeld 2006; Bued	chte 2006; Dell 20	06; Sorahan &	& Harrington 2007; Morfeld & McCunney 2009;
IARC Classification	In 2006 IARC re- whether carbo experimental a black is "possib generally requir 2010).	affirmed its 1995 f n black causes ca nimal studies for t ly carcinogenic to re such a classificat	finding that there ancer in humans the carcinogenicit humans (Group i tion if one specie	is "inadequat . IARC co ty of carbon 2B)". This co s exhibits card	e evidence" from human health studies to assess ncluded that there is "sufficient evidence" in black. IARC's overall evaluation is that carbon nclusion Was based on IARC's guidelines, which cinogenicity in two or more animal studies (IARC
	Solvent extracts application and concluded that	s of carbon black w several studies of there was "sufficie	were used in one f mice in which s nt evidence" that	study of rate arcomas were carbon black	s in which skin tumors were found after dermal e found following subcutaneous injection. IARC extracts can cause cancer in animals (Group 2B).
ACGIH Classification	Confirmed Anim	nal Carcinogen with	n Unknown Releva	ance to Huma	ns (Category A3 Carcinogen).
	Assessment: A labeling of Cher	pplying guidelines nicals, carbon black	of self-classifica k is not classified	tion under Gl as a carcinoge	obally Harmonized System of Classification and en.
Reproductive/Developm	ental Toxicity	No effects on r repeated dose to	eproductive orga oxicity studies in a	ans or fetal o inimals.	development have been reported in long-term
STOT – Single exposure	Based on exposure	available data, spe	ecific target orgar	i toxicity is no	t expected after single oral, inhalation, or dermal
STOT – Repeated Exposu	ıre Animal	Toxicity	Species	Duration	Assessment
Carbon Black CAS# 1333	-86-4 Inhal	ation	Rat	90 days	NOEL
Carbon Black CAS# 1333	-86-4 Inhal O	ation ral	Rat Rat	90 days 2 yrs	NOEL NOEL = 52 mg/kg (body wt.)
Carbon Black CAS# 1333	-86-4 Inhal O O	ation ral ral	Rat Rat Mouse	90 days 2 yrs 2 yrs	NOEL NOEL = 52 mg/kg (body wt.) NOEL = 137 mg/kg (body wt.)
Carbon Black CAS# 1333	-86-4 Inhal O O Concentr Target or	ation ral ral ation (NOAEC) = 1. gan effects at high	Rat Rat Mouse 1 mg/m ³ (respira er doses are lung	90 days 2 yrs 2 yrs ble). inflammation	NOEL NOEL = 52 mg/kg (body wt.) NOEL = 137 mg/kg (body wt.) , hyperplasia, and fibrosis.
Carbon Black CAS# 1333	-86-4 Inhal O Concentr Target or Although rat under species-s	ation ral ation (NOAEC) = 1. gan effects at high carbon black prod conditions of "lun pecific response th	Rat Rat Mouse 1 mg/m ³ (respira er doses are lung luces pulmonary i g overload", ther lat is not relevant	90 days 2 yrs 2 yrs ble). inflammation rritation, cellu e is evidence to humans.	NOEL NOEL = 52 mg/kg (body wt.) NOEL = 137 mg/kg (body wt.) , hyperplasia, and fibrosis. Jlar proliferation, fibrosis, and lung tumors in the to demonstrate that this response is principally a
Carbon Black CAS# 1333	-86-4 Inhal O Concentr Target or Although rat under species-s udies Human d exposure	ation ral ation (NOAEC) = 1. gan effects at high carbon black prod conditions of "lun pecific response th ata results of epide to carbon black m	Rat Rat Mouse 1 mg/m ³ (respira er doses are lung luces pulmonary i g overload", ther at is not relevant emiological studie ay result in small,	90 days 2 yrs 2 yrs ble). inflammation rritation, cellu e is evidence to humans. es of carbon b non-clinical o	NOEL NOEL = 52 mg/kg (body wt.) NOEL = 137 mg/kg (body wt.) hyperplasia, and fibrosis. Alar proliferation, fibrosis, and lung tumors in the to demonstrate that this response is principally a lack production workers suggest that cumulative decrements in lung function.
Carbon Black CAS# 1333 Morbidity Sta Inhal	-86-4 Inhal O Concentr Target or Although rat under species-s udies Human d exposure ation Applying on the lu	ation ral ation (NOAEC) = 1. gan effects at high carbon black prod conditions of "lun pecific response th ata results of epide to carbon black m guidelines of self-c ng.	Rat Rat Mouse 1 mg/m ³ (respira er doses are lung luces pulmonary i g overload", ther at is not relevant emiological studie ay result in small, classification unde	90 days 2 yrs 2 yrs ble). inflammation rritation, cellu e is evidence to humans. es of carbon b non-clinical c er GHS, carbon	NOEL NOEL = 52 mg/kg (body wt.) NOEL = 137 mg/kg (body wt.) , hyperplasia, and fibrosis. ular proliferation, fibrosis, and lung tumors in the to demonstrate that this response is principally a lack production workers suggest that cumulative decrements in lung function. n black is not classified under STOT-RE for effects
Carbon Black CAS# 1333 Morbidity Sta Inhal	-86-4 Inhal O Concentr Target or Although rat under species-s Human d exposure ation Applying on the lu	ation ral ation (NOAEC) = 1. gan effects at high carbon black prod conditions of "lun pecific response th ata results of epide to carbon black m guidelines of self-c ng. available data, spe	Rat Rat Mouse 1 mg/m ³ (respira er doses are lung luces pulmonary i g overload", ther lat is not relevant emiological studie ay result in small, classification unde	90 days 2 yrs 2 yrs ble). inflammation rritation, cellu e is evidence to humans. es of carbon b non-clinical o er GHS, carbon	NOEL NOEL = 52 mg/kg (body wt.) NOEL = 137 mg/kg (body wt.) , hyperplasia, and fibrosis. ular proliferation, fibrosis, and lung tumors in the to demonstrate that this response is principally a lack production workers suggest that cumulative decrements in lung function. n black is not classified under STOT-RE for effects t expected after repeated oral exposure
Carbon Black CAS# 1333 Morbidity Str Inhal	-86-4 Inhal O O Concentr Target or Although rat under species-s Human d exposure ation Applying on the lu Oral Based on specific to	ation ral ral ation (NOAEC) = 1. gan effects at high carbon black prod conditions of "lun pecific response th ata results of epide to carbon black m guidelines of self-c ng. available data, spe n available data a arget organ toxicity	Rat Rat Mouse 1 mg/m ³ (respira er doses are lung luces pulmonary i g overload", ther at is not relevant emiological studie ay result in small, classification unde ecific target organ	90 days 2 yrs 2 yrs ble). inflammation rritation, cellu e is evidence to humans. es of carbon b non-clinical o er GHS, carbon toxicity is no -physical pro after repeated	NOEL NOEL = 52 mg/kg (body wt.) NOEL = 137 mg/kg (body wt.) NOEL = 137 mg/kg (body wt.) , hyperplasia, and fibrosis. Alar proliferation, fibrosis, and lung tumors in the to demonstrate that this response is principally a lack production workers suggest that cumulative decrements in lung function. In black is not classified under STOT-RE for effects t expected after repeated oral exposure perties (insolubility, low absorption potential), d dermal exposure.
Carbon Black CAS# 1333 Morbidity Stu Inhal De Aspiration Ha	-86-4 Inhal O Concentr Target or Although rat under species-s udies Human d exposure ation Applying on the lu Oral Based on specific ta	ation ral ral ation (NOAEC) = 1. gan effects at high carbon black prod conditions of "lun pecific response th ata results of epide to carbon black m guidelines of self-con guidelines of self-con ng. available data, spe n available data a arget organ toxicity	Rat Rat Mouse 1 mg/m ³ (respira er doses are lung luces pulmonary i g overload", ther lat is not relevant emiological studie ay result in small, classification unde ecific target organ and the chemical y is not expected a strial experience a	90 days 2 yrs 2 yrs ble). inflammation rritation, cellu e is evidence to humans. es of carbon b non-clinical of er GHS, carbon toxicity is no -physical pro after repeated and the data a	NOEL NOEL = 52 mg/kg (body wt.) NOEL = 137 mg/kg (body wt.) NOEL = 137 mg/kg (body wt.) , hyperplasia, and fibrosis. Alar proliferation, fibrosis, and lung tumors in the to demonstrate that this response is principally a lack production workers suggest that cumulative decrements in lung function. In black is not classified under STOT-RE for effects t expected after repeated oral exposure perties (insolubility, low absorption potential), d dermal exposure.
Carbon Black CAS# 1333 Morbidity Stu Inhal De Aspiration Ha	-86-4 Inhal O O Concentr Target or Although rat under species-s udies Human d exposure ation Applying on the lu Oral Based on specific ta azard Assessme	ation ral ral ation (NOAEC) = 1. gan effects at high carbon black prod conditions of "lun pecific response th ata results of epide to carbon black m guidelines of self-con ng. available data, spect n available data ata arget organ toxicity ent-Based on indus entage of mixture	Rat Rat Mouse 1 mg/m ³ (respira er doses are lung luces pulmonary i g overload", ther lat is not relevant emiological studie ay result in small, classification unde ecific target organ and the chemical y is not expected strial experience a	90 days 2 yrs 2 yrs ble). inflammation rritation, cellu e is evidence to humans. es of carbon b non-clinical of er GHS, carbon toxicity is nor -physical pro after repeated and the data a	NOEL NOEL = 52 mg/kg (body wt.) NOEL = 137 mg/kg (body wt.) NOEL = 137 mg/kg (body wt.) , hyperplasia, and fibrosis. Ilar proliferation, fibrosis, and lung tumors in the to demonstrate that this response is principally a lack production workers suggest that cumulative decrements in lung function. In black is not classified under STOT-RE for effects t expected after repeated oral exposure perties (insolubility, low absorption potential), d dermal exposure. Invailable, no aspiration hazard is expected. Invailable, no aspiration hazard is expected.
Carbon Black CAS# 1333 Morbidity Sta Inhal De Aspiration Ha Acute Toxicity Estimate Route	-86-4 Inhal O O Concentr Target or Although rat under species-s Human d exposure ation Applying on the lu Oral Based on specific tr azard Assessme Perc <u>Oral</u>	ation ral ral ation (NOAEC) = 1. gan effects at high carbon black prod conditions of "lun pecific response th ata results of epide to carbon black m guidelines of self-c ng. available data, spe n available data a arget organ toxicity ent- Based on indus	Rat Rat Nouse 1 mg/m ³ (respira er doses are lung luces pulmonary i g overload", ther is not relevant emiological studie ay result in small, classification unde ecific target organ and the chemical y is not expected a strial experience a	90 days 2 yrs 2 yrs ble). inflammation rritation, cellu e is evidence to humans. es of carbon b non-clinical c er GHS, carbon toxicity is nor -physical pro after repeated and the data a redients of un	NOEL NOEL = 52 mg/kg (body wt.) NOEL = 137 mg/kg (body wt.) A, hyperplasia, and fibrosis. Ular proliferation, fibrosis, and lung tumors in the to demonstrate that this response is principally a lack production workers suggest that cumulative decrements in lung function. In black is not classified under STOT-RE for effects at expected after repeated oral exposure perties (insolubility, low absorption potential), d dermal exposure. Invailable, no aspiration hazard is expected. Known toxicity: 0%



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Section 12 Ecological Information						
Ecological Data / Information on ecological effects Carbon Black CAS# 1333-86-4						
Aquatic toxicity	Test	<u>Result</u>	<u>Species</u>	<u>Exposure</u>	<u>Method</u>	
	LC50	> 1,000mg/L	Brachydanio rerio	96 hrs	OECD 203	
	EC50	> 5,600 mg/L	Daphnia magna	24 hrs	OECD 202	
	EC50	>10,000 mg/L	Algae	72 hrs	-	
	NOEC	≥ 10,000 mg/L	Algae	96 hrs	OECD 201	
	ECO	≥ 800 mg/L	Activated sludge		DEV L3 TTC test	
Persistence & degradability	The methods for determining biodegradability are not applicable to inorganic substances.					
Bioaccumulative potential	Not expected due to the physicochemical properties of carbon black.					
PBT / vPvB Assessment	No data available, as Carbon black does not fulfill the criteria for PBT or vPvB.					
Mobility	Carbon black is not expected to migrate, insoluble. Aqueous portion will evaporate.					
Distribution to Environment	As presented the aqueous portion of the dispersion with evaporate and/or be absorbed in soil. Carbon black being insoluble is expected to remain on the soil surface or as a dried powder float on water.					
Other adverse effects	In the dispersion form spilt product may discolor waterways and/or sewage systems.					
Section 13 Disposal Consideration						
Waste treatment methods	Recommendation: Examine possibilities for re-utilization. Product residues and unclean empty containers should be sealed, labeled, and disposed of or recycled according to relevant national and local regulations.					
Container Disposal	When unclean, empty containers are passed on; the recipient must be warned of any possible hazard that may be caused by residues. Disposal must be made according to official regulations.					
RCRA Status	Not regulated, and not subject to reporting as it is not identified as a hazardous waste under 40 CFR 261.					
Hazardous Waste (EU)	The (EU) classification of this product may meet the criteria for a hazardous waste. Disposal should be in accordance with regional, national and local laws and regulations.					
Other information	Do not put into public waterways or sewer systems.					
Section 14 Transport Information						
Regulatory Info UN No.	Proper Shipping Nan	ne	Classes Pk	g. Remarks	Label	

Regulatory Info	UN No.	Proper Shipping Name	Classes	Pkg.	Remarks	Label
DOT		Not Regulated by DOT	n/a	n/a	none	n/a
ICAO / IATA		Not Regulated	n/a	n/a	none	n/a
IMDG		Not Regulated	-	-	-	-
RID / ADR		Not Regulated	-	-	-	-
IMDG Emergency Response Procedures for Ships Carrying Dangerous Goods			EMS C	odes	<u>n/a</u>	<u>n/a</u>



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Section 15 Regulatory Information								
Safety, health and environmental regulations specific for the mixture								
USA OSHA (29 CFR	1910.1200)	This carbon black as supp	This carbon black as supplied in an aqueous dispersion matrix					
Canada – WHIS Classification		Class	Chemical Name	e	WHIS Ingredient Disclosure			
(as a dry powder)		D2A	Carbon Black, CAS# 13	33-86-4	1%			
SARA Title III Hazar	ds Notification							
SARA 302/304	No cor	nponents listed						
SARA 311/312	<u>√</u> Mixtur	e contains a listed component:	Carbon Black, CAS# 1	.333-86-4				
	Classification	of active ingredient, in original po	owder form: 🗹 F	Fire hazard 🖌	Chronic health hazard			
SARA 313	X Mixtur	e contains a listed component:	Ingredient	CAS#	Concentration			
	Carbon Black 1333-86-4 32% (±1%) Under EPA Toxic Release Inventory (TRI) the reporting threshold for the polycyclic aromatic compounds (PAC) is 100 Ibs/year manufactured, processed, or otherwise used. The 100 lbs/yr reporting threshold applies to the cumulative total of 25 specific PACs. In addition the TRI reporting threshold for Benzo [g,h,i] perylene is 10 lbs/year manufactured, processed, or otherwise used. Carbon black may contain certain PACs and/or Benzo [g,h,i] perylene. Based on laboratory analyses, most carbon black grades will typically have PAH levels not exceeding 0.1%. The user is advised to evaluate their own TRI reporting responsibilities.							
	SARA 313 n	otifications must not be detached from	m the SDS and any copying, r	redistribution of the	SDS shall include this notice!			
TSCA 8(b)	All functional	All functional components of this product are either exempt or listed on the TSCA Inventory.						
TSCA 12(b)	Product does	Product does not contain any components that are subject to TSCA 12(b) Export Notification.						
Clean Air Act 1990	(CAA, Section 112, 40 CFR 82) Product does not contain any components listed as a hazardous Air Pollutant, Flammable Substance, Toxic Substance or Class 1 or 2 Ozone Depletor.							
Clean Water Act	(CWA) Product does not contain any components regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).							
CERCLA (CFR 302)	Product does not contain any components regulated as hazardous substances.							
FDA Regulations	Per the Food and Drug Administration, carbon black is permitted for indirect contact with food when used as a filler in rubber articles intended for repeated use under 21 CFR 177.2600.							
	 Limitations: •Total carbon black (channel and furnace processed) in the rubber may not exceed 50% by weight of the rubber products. This dispersion contains a furnace process black. •Not intended for use in contact with infant formula and milk. 							
Pharmaceutical	Not permitte	Not permitted						
California Prop 65	X Mixtur	e contains a listed component(s):	Ingredient(s)	CAS#	Concentration			
			Carbon Black	1333-86-4	32% (±1%)			
	•"Carbon black (airborne, unbound particles of respirable size)" is a CA Prop 65 listed substance. Please note all three listing qualifiers (airborne, unbound (not within a matrix) and respirable size (10 micrometers or less in diameter) must be met for this substance to be considered a Prop 65 listed substance.							
	•Certain poly CA Prop 65 lis	•Certain polycyclic aromatic hydrocarbons (PAHs) that may be found adsorbed onto the surface of carbon black are CA Prop 65 listed substances.						
	•"Carbon-black extracts" is a CA Prop 65 listed substance.							
	•Certain metals, including arsenic, cadmium, lead, mercury, or nickel, may be present on and/or in carbon black, and are CA Prop 65 listed substances.							



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Section 15 Regulatory Information (continued)										
US Right-to Know	X Chen	nical(s)			Carbon Black	CAS# 1333-86-4				
	Арре	ears on the f	ollowing state(s) subst	ance list:	NJ	МА	ΡΑ			
International Lists	Active component(s) are listed or exempted on the following international inventories:									
	Canada (DSL / NDSL) Korea (KECL)									
	Australia (A	AICS)		New Ze	New Zealand (NZIoC)					
	China (IECSC)			Philippi	Philippines (PICCS)					
	European Union (EINECS / ELINCS)			Taiwan	(TCSI)					
	Japan (ENC	S)								
Section 16 Other I	nformation									
	aromatic hydrocarbons (PAH). Solvent extractable PAH content depends on numerous factors including, but not limited to, the manufacturing process, desired product specifications, and the analytical procedure used to measure and identify solvent extractable materials. Questions concerning PAH content of the carbon black and analytical procedures should be addressed to the carbon black supplier. <u>Cosmetic Use:</u> Cabot Corporation does not support the use of its carbon blacks in any cosmetic application.									
Reference(s)	Information compiled from raw material SDS document(s): Cabot Corporation, Rev: 29-Jan-2018									
Revision Remarks	Revision Remarks New SDS / GHS Format									
Date Printed	20 Augus	st 2018	Revision Date:	20 Aug 20	018	Supersedes:	15 Jun 2015			
Prepared By F. Steve	en DiMasi, VP	P Mfg/QA	Information Contact	Number (401) 7	783-5887					
Abbreviation Legend										
OSHA: Occupational Safety and Health Administration		NIOSH: The I Occupational	National Institute for Safety and Health	ACGIH: The Ame Governmental In	erican Conference of dustrial Hygienists	TWA: Time weig	hted average			
PEL: Permissible exposure	limit	REL: Recomm	nended exposure limits	TLV: Threshold li	imit value	STEL: Short term	exposure limit			
GHS: Globally Harmonized	System	EINECS: Euro Commercial C	pean Inventory of Existing Themical Society	ELINCS: Europea Substances	n List of Notified Chem	ical CAS: Chemical Al	ostracts Service			
IATA: International Air Transport Association		IMDG: International Maritime Code for ICO: International Dangerous Goods Organization		al Civil Aviation	P: Marine Polluta	P: Marine Pollutant				
Response, Comprehensive En	ind Liability Act	CWA: Clean V	Vater Act	r.a.: read across	35 HNOC: Hazards not o		ot otherwise classified			
NOEL: No observed effect le	evel	NOEC: No obs	erved effect concentration	STOT: Specific ta	arget organ toxicity					
Important Note:										

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.