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SECTION 1. IDENTIFICATION

Product name : CARBON BLACK WITH DISPERSANT 8084

Manufacturer or supplier's details

Company name of supplier : Venator Americas LLC

Address : 10001 Woodloch Forest Drive

The Woodlands, TX 77380

United States of America (USA)

Telephone : (001) 844 831 6720 Telefax : (001) 281 465 6731

E-mail address of person responsible for the SDS

address of person : msds@venatorcorp.com

Emergency telephone number : USA & Canada: +1-800-424-9300 Other Americas: +1-703-

741-5970 [CCN 820025]

Recommended use of the chemical and restrictions on use

Recommended use : Industrial use

Colouring agents, pigments

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Combustible dust

GHS label elements

Signal word : Warning

Hazard statements : May form combustible dust concentrations in air.

Other hazards

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
carbon black	1333-86-4	60 - 100



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The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice : Consult a physician.

If inhaled : If breathed in, move person into fresh air.

Get medical attention if symptoms occur.

In case of skin contact : Wash off with soap and water.

Call a physician if irritation develops or persists.

In case of eye contact : Rinse with water.

If eye irritation persists, consult a specialist.

If swallowed : Rinse mouth with water.

If material has been swallowed and the exposed person is

conscious, give small quantities of water to drink. DO NOT induce vomiting unless directed to do so by a

physician or poison control center. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

Dust contact with the eyes can lead to mechanical irritation. Inhalation of dust may cause shortness of breath, tightness of

the chest, a sore throat and cough.

The product is not irritant but as with all fine powders can absorb moisture and natural oils from the surface of the skin

during prolonged exposure.

Individuals with sensitive skin may experience skin drying on

prolonged or repeated exposure.

Protection of first-aiders : No action shall be taken involving any personal risk or without

suitable training.

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam Dry powder

Carbon dioxide (CO2)

Unsuitable extinguishing

media

High volume water jet



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Specific hazards during

firefighting

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 smouldering material is present.

Burning produces irritant fumes.

The product is insoluble and floats on water. If possible, try to contain floating material.

This material creates a fire hazard because it floats on water.

May ignite other combustible materials.

Hazardous combustion

products

Carbon dioxide (CO2)
Carbon monoxide
Sulphur oxides

Specific extinguishing

methods

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Further information : Standard procedure for chemical fires.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Ensure adequate ventilation.

Avoid dust formation.

Remove all sources of ignition.

Material can create slippery conditions.

Never return spills in original containers for re-use.

Treat recovered material as described in the section "Disposal

considerations".

Environmental precautions : No special environmental precautions required.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

: Keep in suitable, closed containers for disposal.

Sweep up or vacuum up spillage and collect in suitable

container for disposal.

Avoid creating dusty conditions and prevent wind dispersal. Clean contaminated floors and objects thoroughly while

observing environmental regulations.

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Avoid dust formation.

Provide appropriate exhaust ventilation at places where dust

is formed.

Advice on safe handling : Keep away from fire, sparks and heated surfaces.

Minimize dust generation and accumulation. Avoid formation of respirable particles.



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Avoid inhalation, ingestion and contact with skin and eyes. Avoid exposure - obtain special instructions before use.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national

regulations.

Take precautionary measures against static discharges.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Observe label precautions.

Electrical installations / working materials must comply with the

technological safety standards.

Further information on storage stability

Keep in a dry place.

SECTION 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	TWA (Inhalable fraction)	3 mg/m3	ACGIH
		TWA	3.5 mg/m3	OSHA Z-1

Engineering measures : Maintain air concentrations below occupational exposure

standards.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines

Hand protection

Remarks : For prolonged or repeated contact use protective gloves.

Eye protection : Safety glasses

Ensure that eyewash stations and safety showers are close

to the workstation location.

Skin and body protection : Personal protective equipment for the body should be

selected based on the task being performed and the risks involved and should be approved by a specialist before

handling this product.

Protective measures : Wear suitable protective equipment.

Hygiene measures : Wash hands before breaks and immediately after handling



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the product.

Remove contaminated clothing and protective equipment

before entering eating areas.

Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has

occurred.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Colour : black

Odour : odourless

Odour Threshold : No data is available on the product itself.

pH : Concentration: 750 g/l

Freezing point : No data is available on the product itself.

Melting point : No data is available on the product itself.

Boiling point : Not applicable

Flash point : No data is available on the product itself.

Evaporation rate : Not applicable

Flammability (solid, gas) : No data is available on the product itself.

Flammability (liquids) : No data is available on the product itself.

Upper explosion limit / Upper

flammability limit

: No data is available on the product itself.

Lower explosion limit / Lower

flammability limit

: No data is available on the product itself.

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : 1.7 - 1.9

Density : No data is available on the product itself.

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data is available on the product itself.



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Partition coefficient: n-

octanol/water

: No data is available on the product itself.

Auto-ignition temperature : No data is available on the product itself.

Thermal decomposition : No data is available on the product itself.

Self-Accelerating

decomposition temperature

(SADT)

No data is available on the product itself.

Viscosity

: Not applicable Viscosity, kinematic

Explosive properties No data is available on the product itself.

Oxidizing properties No data is available on the product itself.

Particle size : No data is available on the product itself.

SECTION 10. STABILITY AND REACTIVITY

Reactivity No dangerous reaction known under conditions of normal use.

Stable under normal conditions. Chemical stability

Possibility of hazardous Dust may form explosive mixture in air.

reactions

Stable under recommended storage conditions.

Conditions to avoid : No data available

Incompatible materials Strong oxidizing agents

Hazardous decomposition

products

Carbon dioxide (CO2) Carbon monoxide

Sulphur oxides

SECTION 11. TOXICOLOGICAL INFORMATION

exposure

Information on likely routes of : No data is available on the product itself.

Acute toxicity

Components:

carbon black:

Acute oral : LD50 (Rat, male and female): > 8,000 mg/kg

toxicityComponents Method: OECD Test Guideline 401

Assessment: The substance or mixture has no acute oral

toxicity

Components:

carbon black:

Acute inhalation toxicity : LC50 (Rat): > 4.6 mg/m3



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Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : No data available

Acute toxicity (other routes of : No data available

administration)

Skin corrosion/irritation

Components:

carbon black: Species: Rabbit Exposure time: 4 h

Assessment: No skin irritation Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation

Components:

carbon black: Species: Rabbit

Result: No eye irritation Assessment: No eye irritation Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Components:

carbon black:

Test Type: Buehler Test Exposure routes: Skin Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

Exposure routes: Respiratory Tract

Species: Mouse

Assessment: Does not cause respiratory sensitisation.

Result: Does not cause skin sensitisation.

No data available Assessment:

Germ cell mutagenicity

Components:

carbon black:

Genotoxicity in vitro : Test Type: sister chromatid exchange assay

Test system: Chinese hamster ovary cells

Concentration: 0.00032-1 mg/ml

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 479



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Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Components:

carbon black:

Genotoxicity in vivo : Test Type: in vivo assay

Species: Rat (females) Cell type: Somatic

Application Route: Inhalation Dose: 10 - 100 mg/kg Result: positive

Test Type: in vivo assay Species: Rat (females) Application Route: Inhalation Exposure time: 13 Weeks Dose: 1 - 50 mg/m3 Result: negative

Test Type: in vivo assay Application Route: Oral Exposure time: 6 h

Dose: 1%

Method: OECD Test Guideline 477

Result: negative

Components:

carbon black:

Germ cell mutagenicity-

Assessment

: Contains no ingredient listed as a mutagen

Germ cell mutagenicity-

Assessment

: No data available

Carcinogenicity

Components:

carbon black:

Species: Mouse, female Application Route: Inhalation Exposure time: 13.5 month(s)

Dose: 7.5 - 12 mg/m³

Frequency of Treatment: 5 daily Method: OECD Test Guideline 451



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Result: negative

Species: Mouse, male and female

Application Route: Dermal Exposure time: 18 month(s) Frequency of Treatment: 3 daily

Result: negative

Species: Rat, female Application Route: Oral Exposure time: 24 month(s)

Dose: 52 mg/kg

Frequency of Treatment: 7 daily

Result: negative

Species: Rat, male and female Application Route: Inhalation Exposure time: 24 month(s) Dose: 7,5 - 12,2 mg/m³

Frequency of Treatment: 5 daily Method: OECD Test Guideline 451

Result: positive Target Organs: Lungs

Species: Mouse

Application Route: Dermal Exposure time: 9 - 24 month(s)

Dose: 6 - 60%

Frequency of Treatment: 2 daily Method: OECD Test Guideline 451

Result: negative

Species: Mouse, male and female

Application Route: Oral

Exposure time: 12 - 18 month(s)

Dose: 10%

Frequency of Treatment: 7 daily

Result: negative

Species: Rat, male and female Application Route: Inhalation Exposure time: 24 month(s)

Dose: 2,5 mg/m3

Frequency of Treatment: 16 hr/day, 5 d/wk

Method: OECD Test Guideline 451

Result: positive Target Organs: Lungs

Components:

carbon black:

Carcinogenicity - : Weight of evidence does not support classification as a

Assessment carcinoge

Tumours produced in rats on inhalation of very high

concentrations are believed to be the result of prolonged "lung

overload" and are not considered relevant to man.



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IARC Group 2B: Possibly carcinogenic to humans

carbon black

ACGIH Confirmed animal carcinogen with unknown relevance to

humans

carbon black

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

Reproductive toxicity

Effects on fertility : No data available

Effects on foetal development

: No data available

Reproductive toxicity -

Assessment

: No data available

STOT - single exposure

No data available

STOT - repeated exposure

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: Mouse, male and female

NOEL: > 1000000 mg/kg Application Route: oral (feed) Exposure time: 12 - 18 months Number of exposures: continuously

Species: Rat, females NOEL: 52 mg/kg

Application Route: oral (feed) Exposure time: 52 Weeks

Number of exposures: Continously

Dose: 2.05 g/kg

Species: Mouse, females NOEL: 137 mg/kg

Application Route: oral (feed)



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Exposure time: 52 Weeks

Number of exposures: Continously

Dose: 2.05 g/kg

Method: OECD Test Guideline 413

Species: Rat. male and female

LOEC: 2.5 mg/m3

Application Route: inhalation (dust/mist/fume)

Exposure time: 24 Months

Number of exposures: 16 h/day, 5 days/wk

Dose: 2.5 or 6.5 mg/m3

Method: OECD Test Guideline 452

Target Organs: Lungs

Species: Mouse, male and female

Application Route: Dermal

Number of exposures: 3 times/week

Dose: 20%

Symptoms: see user defined free text

Repeated dose toxicity - : No data available

Assessment

Aspiration toxicity

No data available

Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Ingestion: No data available



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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

carbon black:

Toxicity to fish : LC50: > 1,000 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Components:

carbon black:

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 5,600 mg/l

Exposure time: 24 h

Method: OECD Test Guideline 202

Components:

carbon black:

Toxicity to algae/aquatic

plants

: ErC50: > 10,000 mg/l

Exposure time: 72 h

M-Factor (Acute aquatic

toxicity)

: No data available

Toxicity to fish (Chronic

toxicity)

: No data available

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: No data available

M-Factor (Chronic aquatic

toxicity)

: No data available

Components:

carbon black:

Toxicity to microorganisms : IC0: > 800 mg/l

Exposure time: 3 h

Method: No information available.

Toxicity to soil dwelling

organisms

: No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial

organisms

: No data available

Ecotoxicology Assessment

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Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to

the environment

: No data available

Persistence and degradability

Biodegradability - Product : Result: Not readily biodegradable.

Biochemical Oxygen

Demand (BOD)

: No data available

Chemical Oxygen Demand

(COD)

: No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon

(DOC)

: No data available

Physico-chemical

removability

: No data available

Stability in water : No data available

Photodegradation : No data available

Impact on Sewage

Treatment

: No data available

Bioaccumulative potential

Bioaccumulation - Product : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

: No data available

Mobility in soil

Mobility : No data available

Distribution among

environmental compartments

: No data available

Stability in soil : No data available

Other adverse effects



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Environmental fate and

pathways

: No data available

Results of PBT and vPvB

assessment - Product

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

Endocrine disrupting

potential

: No data available

Adsorbed organic bound

halogens (AOX)

: No data available

Hazardous to the ozone layer

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82

Protection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was

manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +

B).

Additional ecological

information

: No data available

Global warming potential

(GWP)

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA

Not regulated as dangerous goods



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IMDG

Not regulated as dangerous goods

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

Not applicable for product as supplied.

National Regulations

DOT Classification

Not regulated as dangerous goods

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65

WARNING: This product can expose you to chemicals including carbon black, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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

CH INV : On the inventory, or in compliance with the inventory DSL All components of this product are on the Canadian DSL **AICS** On the inventory, or in compliance with the inventory **NZloC** On the inventory, or in compliance with the inventory **ENCS** On the inventory, or in compliance with the inventory 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 TCSI** On the inventory, or in compliance with the inventory **TSCA** All substances listed as active on the TSCA inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

TSCA - 5(a) Significant New Use Rule List of Chemicals

No substances are subject to a Significant New Use Rule.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)



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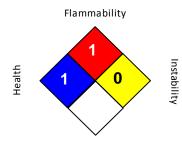
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No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



Special hazard.

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

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LABEL CODE: 0015

Sources of key data used to compile the Safety Data

Sheet

: Information taken from reference works and the literature.,

Information derived from practical experience.

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ACGIH : USA. ACGIH Threshold Limit Values (TLV)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1

Limits for Air Contaminants

ACGIH / TWA : 8-hour, time-weighted average OSHA Z-1 / TWA : 8-hour time weighted average

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