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# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

# 1. Identification

Product identifier: AEROSIL® COK 84

#### Other means of identification

### Recommended restrictions

Recommended use: Agricultural products Adhesive Personal care Paints and varnishes. Dispersant

Restrictions on use: Not known.

# Manufacturer/Importer/Distributor Information

: Evonik Corporation Company Name

2 Turner Place

Piscataway, NJ 08854

USA

Telephone : +1 732 981 5000

E-mail : product-regulatory-services@evonik.com

### **Emergency telephone number:**

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)

Emergency 800 681 9531 (CHEMTREC MEXICO) +1 703 527 3887 (CHEMTREC WORLD)

# 2. Hazard(s) identification

## **Hazard Classification**

# **Label Elements**

**Hazard Symbol:** No symbol

**Signal Word:** No signal word.

**Hazard Statement:** Not applicable

**Precautionary Statements** 

Not a hazardous substance or mixture.

Hazard(s) not otherwise

classified (HNOC):

None.

# 3. Composition/information on ingredients

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#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)	112945-52-5	
Aluminium oxide	1344-28-1	

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition Comments:** A new CAS, 112945-52-5, has been assigned to amorphous, fumed silica to

distinguish it from crystalline silica. According to the EPA, this product meets TSCA requirements and is listed on the TSCA inventory as silica with CAS 7631-

86-9.

The exact concentration has been withheld as a trade secret.

### 4. First-aid measures

### Description of necessary first-aid measures

**Inhalation:** In case product dust is released: Possible discomfort: cough,

sneezing Move victims into fresh air.

**Skin Contact:** Wash off with plenty of water and soap.

**Eye contact:** In case of contact, immediately flush eyes with plenty of water for at

least 15 minutes or until all material has been removed. Obtain

medical attention.

**Ingestion:** Clean mouth with water and drink afterwards plenty of water. After

absorbing large amounts of substance / In case of discomfort: Supply

with medical care.

**Personal Protection for First-**

aid Responders:

As in any fire, wear self-contained positive-pressure breathing

apparatus, (MSHA/NIOSH approved or equivalent) and full protective

gear.

Most important symptoms/effects, acute and delayed

**Symptoms:** None known.

**Hazards:** No data available.

Indication of immediate medical attention and special treatment needed

**Treatment:** No hazards which require special first aid measures.

# 5. Fire-fighting measures

### Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Water spray, foam, CO2, dry powder. Adapt fire-extinguishing measures to

surroundings

Unsuitable extinguishing

media:

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from

the chemical:

None known.

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### Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

As in any fire, wear self-contained positive-pressure breathing apparatus,

(MSHA/NIOSH approved or equivalent) and full protective gear.

### 6. Accidental release measures

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

Methods and material for containment and cleaning

up:

Sweep up or vacuum up spillage and collect in suitable container for

disposal.

**Environmental Precautions:** Obey relevant local, state, provincial and federal laws and regulations. Do

not contaminate any lakes, streams, ponds, groundwater or soil.

# 7. Handling and storage

### Handling

Technical measures (e.g. Local and general ventilation):

No data available.

Safe handling advice: Handle in accordance with good industrial hygiene and safety practice. If

there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. If the workplace threshold limit value is exceeded and/or the substance is released, use appropriate respiratory

protection. Use with adequate ventilation.

Contact avoidance measures: No data available.

Hygiene measures: When using, do not eat, drink or smoke. Wash face and/or hands before

break and end of work. To ensure ideal skin protection: use super fatted soaps and skin cream for skin care. Wash contaminated clothing before

reuse.

Storage

Safe storage conditions: Take precautionary measures against static discharges. Keep containers

tightly closed in a dry, cool place.

Safe packaging materials: No data available.

# 8. Exposure controls/personal protection

# **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	Туре	Exposure Limit Values	Source
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)	PEL	6 mg/m3	Source: 54 FR 2701
	PEL	20 millions of particles per cubic foot of air	Source: 54 FR 2701
Aluminium oxide - Respirable fraction.	TWA	1 mg/m3	US. ACGIH Threshold Limit Values (03 2016)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air



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			Contaminants (29 CFR 1910.1000) (03 2016)
Aluminium oxide - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
		_	Contaminants (29 CFR 1910.1000) (03 2016)
Aluminium oxide - Respirable	TWA	15 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000) (03
fraction.		particles per	2016)
		cubic foot of	
		air	
	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03
			2016)
Aluminium oxide - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03
		-	2016)
	TWA	50 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000) (03
		particles per	2016)
		cubic foot of	,
		air	

**Appropriate Engineering** 

No data available.

**Controls** 

### Individual protection measures, such as personal protective equipment

**Eye/face protection:** Wear safety glasses with side shields. In case dusts are formed, wear

close fitting protective goggles.

**Skin Protection** 

Protection:

**Hand Protection:** Additional Information: Use impermeable gloves.

Skin and Body A safety shower and eye wash fountain should be readily available. To

> identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

**Respiratory Protection:** A respiratory protection program that meets OSHA 1910.134 and ANSI

Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's

"Respirator Decision Logic" may be useful in determining the suitability of

various types of respirators.

When using, do not eat, drink or smoke. Wash face and/or hands before Hygiene measures:

> break and end of work. To ensure ideal skin protection: use super fatted soaps and skin cream for skin care. Wash contaminated clothing before

reuse.

# 9. Physical and chemical properties

**Appearance** 

Physical state: solid Form: Powder Color: White Odor: Odorless

**Odor Threshold:** Not applicable

pH: 3.6 - 4.3 (40 g/l, 20 °C) Suspension

**Melting Point:** approx. 1,700 °C **Boiling Point:** not determined **Flash Point:** Not applicable **Evaporation Rate:** Not applicable Flammability (solid, gas): Not applicable

**Explosive limit - upper (%):** Not applicable Explosive limit - lower (%): Not applicable Vapor pressure: Not applicable

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Vapor density (air=1): No data available.

**Density:** approx. 2.4 g/cm3 (20 °C)

Relative density: No data available.

Solubility(ies)

Solubility in Water: Insoluble

Solubility (other):

Partition coefficient (n-octanol/water):

Self Ignition Temperature:

Not applicable

Not applicable

> 2,000 °C

**Kinematic viscosity:**No data available. **Dynamic viscosity:**Not applicable

Other information

**Explosive properties:** not to be expected, given the composition employed **Oxidizing properties:** not to be expected, given the composition employed

Minimum ignition energy:Not applicableMinimum ignition temperature:Not applicable

# 10. Stability and reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical Stability:** Stable under recommended storage conditions.

Possibility of hazardous

reactions:

See Sect. 10.1 Reactivity.

Conditions to avoid: Operations that create dust.

Incompatible Materials: No further information available

**Hazardous Decomposition** 

**Products:** 

None known.

# 11. Toxicological information

**General information:** Silicosis or other product specific illnesses of the respiratory tract have not

been reported.

Information on likely routes of exposure

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

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# Information on toxicological effects

# Acute toxicity (list all possible routes of exposure)

Oral

**Product:** Acute toxicity estimate: > 5,000 mg/kg

LD 50 (Rat): > 5,000 mg/kg tested substance: LD 50 (Rat): > 5,000 mg/kg tested substance:

**Dermal** 

Product: LD 50 (Rabbit): > 5,000 mg/kg literature

Inhalation

Product: LC0 (Rat): 0.139 mg/l (maximum concentration attainable in experiments),

No deaths occurred., literature, tested substance:, Silicon dioxide, derived

from chemical synthesis

Repeated dose toxicity

**Product:** No negative effects.

No irreversible changes and no indication of silicosis.

Skin Corrosion/Irritation

**Product:** literature (Rabbit): Not irritating.

Serious Eye Damage/Eye Irritation

**Product:** Rabbit: Not irritating.

Respiratory or Skin Sensitization

**Product:** Not known.

Carcinogenicity

**Product:** No data available.

Components:

Silicon dioxide, Not classified

chemically prepared (CAS 112945-52-5 resp.

7631-86-9)

Aluminium oxide Not classified

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

**US. National Toxicology Program (NTP) Report on Carcinogens:** 

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

**Germ Cell Mutagenicity** 

In vitro

**Product:** No data available.

In vivo

**Product:** No evidence of mutagenic effects reported in literature.

Reproductive toxicity

**Product:** No data available.

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Components:

Not classified Silicon dioxide.

chemically prepared (CAS 112945-52-5 resp.

7631-86-9)

Aluminium oxide Not classified

**Specific Target Organ Toxicity - Single Exposure** 

**Product:** 

No data available.

Components:

Silicon dioxide. Not classified

chemically prepared (CAS 112945-52-5 resp.

7631-86-9)

Aluminium oxide Not classified

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** No data available.

**Components:** 

Silicon dioxide, Not classified

chemically prepared (CAS 112945-52-5 resp.

7631-86-9)

Aluminium oxide Not classified

**Aspiration Hazard** 

**Product:** No data available.

**Components:** 

Silicon dioxide, Not classified

chemically prepared (CAS 112945-52-5 resp.

7631-86-9)

Aluminium oxide Not classified

Other effects: No data available.

### 12. Ecological information

# **Ecotoxicity:**

# Acute hazards to the aquatic environment:

Fish

LC 50 ((Brachydanio rerio), 96 h): > 10,000 mg/l The reported toxic effects **Product:** 

relate to the nominal concentration. tested substance: Silicon dioxide,

derived from chemical synthesis

LC 50 (Salmo trutta, 96 h): > 100 mg/l literature tested substance: aluminium

oxide

**Aquatic Invertebrates** 

**Product:** EC 50 (Daphnia magna, 24 h): > 1,000 mg/l The reported toxic effects relate

to the nominal concentration. tested substance: Silicon dioxide, derived from

chemical synthesis

EC 50 (Daphnia magna, 48 h): > 100 mg/l literature tested substance:

aluminium oxide

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# Chronic hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Components:

Aluminium oxide EC 50 (Pseudokirchneriella subcapitata (microalgae), 72 h): > 100 mg/l

literature

# Persistence and Degradability

**Biodegradation** 

**Product:** The methods for determining biodegradability are not applicable to inorganic

substances.

**BOD/COD Ratio** 

**Product:** No data available.

**Bioaccumulative potential** 

**Bioconcentration Factor (BCF)** 

**Product:** Not to be expected.

Partition Coefficient n-octanol / water (log Kow)

**Product:** Log Kow: Not applicable

**Mobility in soil:** No remarkable mobility in soil is to be expected.

Other adverse effects: The data we have at our disposal do not necessitate identification

concerning environmental hazard.

# 13. Disposal considerations

**Disposal methods:** No waste key number as per the European Waste Types List can be

assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer. The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority. Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the

preferred method.

Contaminated Packaging: Packaging material should be recycled or disposed of in accordance with

federal, state and local regulations.

### 14. Transport information

# **Domestic regulation**

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#### **49 CFR**

Not regulated as a dangerous good

Remarks : Not dangerous according to transport regulations.

# **International Regulations**

### **UNRTDG**

Not regulated as a dangerous good

### **IATA-DGR**

Not regulated as a dangerous good

### **IMDG-Code**

Not regulated as a dangerous good

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

Not applicable for product as supplied.

### 15. Regulatory information

### **US Federal Regulations**

# TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

# US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

# US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

### CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

# **Hazard categories**

Not classified

### **SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

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### SARA 311/312 Hazardous Chemical

**Chemical Identity Threshold Planning Quantity** 

None present or none present in regulated quantities.

# SARA 313 (TRI Reporting)

Reporting threshold for **Chemical Identity** other users

Aluminium oxide Otherwise used (nonmanufacturing/processing)

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

# **US State Regulations**

# **US.** California Proposition 65

No ingredient requiring a warning under CA Prop 65.

### US. New Jersey Worker and Community Right-to-Know Act

### **Chemical Identity**

Aluminium oxide

### US. Massachusetts RTK - Substance List

# **Chemical Identity**

Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-

Aluminium oxide

# US. Pennsylvania RTK - Hazardous Substances

# **Chemical Identity**

Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)

Aluminium oxide

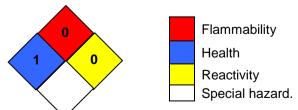
### **US. Rhode Island RTK**

# **Chemical Identity**

Aluminium oxide

### 16.Other information, including date of preparation or last revision

# NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

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Version #: 1.1

**Further Information:** No data available.

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**Revision Information:** Changes since the last version are highlighted in the margin. This version

replaces all previous versions.

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