

# SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

### 1. Identification

Product identifier: AEROSIL® R 805

Other means of identif	ication
CAS Number:	92797-60-9

#### **Recommended restrictions**

**Recommended use:** Paints and varnishes. Sealant Adhesive Cosmetics Flow-promoting agent. Reinforcing agent. **Restrictions on use:** Not determined.

#### Manufacturer/Importer/Distributor Information

Company Name	: Evonik Corporation 2 Turner Place Piscataway, NJ 08854 USA
Telephone	: +1 732 981 5000
E-mail	: product-regulatory-services@evonik.com
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#### 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**

#### OSHA hazard(s)

Combustible dust

#### Label Elements

Hazard Symbol:	No symbol
Signal Word:	Warning
Hazard Statement:	May form combustible dust concentrations in air.
Precautionary Statements	

# Hazard(s) not otherwise None. classified (HNOC):

US



## 3. Composition/information on ingredients

#### **Substances**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Silane, trimethoxyoctyl-, hydrolysis products with silica		92797-60-9	<=100%

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

# **Composition Comments:** The components are not hazardous or are below required disclosure limits.

The exact concentration has been withheld as a trade secret.

#### 4. First-aid measures

#### Description of first aid measures

Inhalation:	In case product dust is released: Possible discomfort: cough, sneezing Move to 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. No information available.	
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:	No data available.	
Most important symptoms and effects, both 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.
Special hazards arising from the substance or mixture:	May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition.
Special protective equipment and precautio	ns for firefighters
Special fire fighting procedures:	As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.
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. Avoid dust formation.
Accidental release measures:	If dust is present, control smoking, open flames, sparks, static electricity and friction heat.
Methods and material for containment and cleaning up:	Sweep up or vacuum up spillage and collect in suitable container for disposal. Use cleaning techniques that do not generate dust clouds if ignition sources are present.

# 7. Handling and storage

Har	ndling			
-	Technical mea	sures:		No data available.
I	Local/Total 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. Minimize the escape of dust from process equipment and ventilation systems. Utilize surfaces that minimize dust accumulation and facilitate cleaning. Dust accumulations should be avoided to prevent secondary dust explosions.
	Contact avoida	ance measures:		No data available.
Sto	orage			
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Safe storage conditions:	Protect from heat and exposure to direct sunlight Keep containers tightly closed in a dry, cool and well-ventilated place. Take precautionary measures against static discharges. When repairs of the production system are to be made (e.g. welding work), the section to be repaired must be essentially free of product. Prevent the generation of dust clouds, since dusts can form explosive mixtures with air. If dust forms, remove all sources of ignition and static discharge. Do not allow dust to collect in open or hidden areas. In product transfer systems involving the use of air as a fluidizing medium, the user must be sure to dissipate static charge by careful bonding and grounding of all equipment and personnel involved in fluid transfer, with continuity checks to prove effectiveness. Additional guidance on fire and explosion protection may be found in the consensus standard NFPA 654 for chemical dusts.
Safe packaging materials:	No data available.

### 8. Exposure controls/personal protection

## **Control Parameters**

Occupational	Exposure	Limits
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None of the components have assigned exposure limits.

#### **Biological Limit Values**

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls	No data available.
Individual protection measures, such as pers	sonal protective equipment
Eye/face protection:	Wear safety glasses with side shields. In case dusts are formed, wear close fitting protective goggles.
Skin Protection Hand Protection:	Additional Information: Wear protective gloves made of the following materials: material, rubber, leather.Additional Information: Use impermeable gloves.
Skin and Body Protection:	Safety showers and eye showers should be easily accessible. In order to determine further specifications applicable to the personal protection equipment, a hazard assessment according to the OSHA standards (29 CFR 1910.132) for personal protection equipment (PPE) is recommended before the product is used.



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

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.

# 9. Physical and chemical properties

Information on basic physical and chemica Appearance	al properties	
Physical state:	solid	
Form:	Powder	
Color:	White	
Odor:	Odorless	
Odor Threshold:	Not applicable	
Melting Point:	Not applicable Decomposition	
Boiling Point:	Not applicable Decomposition	
Flammability:	May form combustible dust concentrations in air.	
Upper/lower limit on flammability or explosive limits		
Explosive limit - upper:	No data available.	
Explosive limit - lower:	Method: VDI 2263 1,500 g/m3 see Explosiveness	
Flash Point:	Not applicable (solid)	
Auto-ignition temperature:	860 °F/460 °C Method: VDI 2263	
Decomposition Temperature:	> 302 °F/> 150 °C	
pH:	3.5 - 5.5 at 68 °F/20 °C Concentration: 40 g/l 1: 1 in suspension	
Viscosity		
Dynamic viscosity:	Not applicable (solid)	
Kinematic viscosity:	Not applicable (solid)	
Flow Time:	No data available.	
Solubility(ies)		
Solubility in Water:	> 1 mg/l	
Solubility (other):	No data available.	
Partition coefficient (n-octanol/water):	Not applicable	
Vapor pressure:	Not applicable	



Relative density:	No data available.
Density:	Approximate 2.2 g/cm3 at 68 °F/20 °C
Bulk density:	No data available.
Vapor density (air=1):	No data available.
Other information	
Explosive properties:	Dust, which can be formed through abrasion, can combine with air to form a mixture which can be explosive.
Self-ignition:	Self-heating may occur
Peroxides:	Not applicable
Minimum Explosible Concentration (MEC):	1,500 g/m3 Method: VDI 2263 1 m3 standard container
Dust explosion properties:	ST-1
Dust Explosion Description Number Kst:	< 3 m.b_/s
Evaporation Rate:	Not applicable
Minimum ignition energy:	> 1 kJ<= 10 kJ Method: VDI 2263 1 m3 standard container

# 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:	Self-heating may occur
Conditions to avoid:	Hydrophobic properties disappear at temperatures > 150°C
Incompatible Materials:	No further information available
Hazardous Decomposition Products:	Carbon Monoxide. Carbon Dioxide. organic products of decomposition Stable under normal conditions. Product will not undergo hazardous polymerization.

# 11. Toxicological information

General inform	ation:	Silicosis or other product specific illnesses of the respiratory tract have not been reported.		
Information of Inhalation:	n likely route	es of exposure Information on effect	s are given below.	
Skin Contac	:t:	Information on effects are given below.		
Eye contact	:	Information on effects are given below.		
Ingestion:		Information on effects are given below.		
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#### Acute toxicity (list all possible routes of exposure)

Oral Product:	LD 50, Rat, Female, Male, > 5,000 mg/kg, OECD 401, (analogy)	
Dermal Product:	LD 50, Rabbit, > 5,000 mg/kg, (analogy)	
Inhalation Product:	LC 50, Rat, Female, Male, 4 h, > 5.01 mg/l, OECD 436, Dust and mist, (analogy)	
Repeated dose toxicity Product:	NOAEL Rat, Male, Oral, 28 day, 7 days a week, >= 1,000 mg/kg, No negative effects. (analogy)	
Skin Corrosion/Irritation Product:	OECD 404, (Rabbit), Not irritating, (analogy)	
Serious Eye Damage/Eye Ir Product:	ritation analogous OECD method, Rabbit, Not irritating, (analogy)	
Respiratory or Skin Sensiti: Product:	zation Local Lymph Node Assay (LLNA), OECD 429, Mouse, Not a skin sensitizer., (analogy) Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer., (analogy)	
Carcinogenicity Product:	Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA. No evidence that cancer may be caused.	
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogens present or none present in regulated quantities		

#### ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities

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

No carcinogens present or none present in regulated quantities

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended: No carcinogens present or none present in regulated quantities

#### **Germ Cell Mutagenicity**

no evidence of mutagenic effects

#### In vitro Product:

gene mutation test, OECD 471: , negative, (analogy) gene mutation test, OECD 490: , negative, (analogy) Chromosomal aberration, OECD 473: , negative, (analogy)



In vivo Product:	Chromosomal aberration, OECD 475, Oral, Rat, Male, negative, (analogy)
Reproductive toxicity Product:	no evidence of reproductiontoxic properties
Specific Target Organ Toxic Product:	<b>Sity - Single Exposure</b> no evidence for hazardous properties
Specific Target Organ Toxic Product:	city - Repeated Exposure no evidence for hazardous properties
Aspiration Hazard Product:	Not applicable
Information on health hazards	
Other hazards Product:	Based on available data, the classification criteria are not met.;
12. Ecological information	
Ecotoxicity: Acute hazards to the aquati	c environment:
Fish Product:	LC 50, (Brachydanio rerio), 96 h, > 10,000 mg/IOECD 203, The reported toxic effects relate to the nominal concentration. (analogy)
Aquatic Invertebrates Product:	EC 50, Daphnia magna, 24 h, > 1,000 mg/IOECD 202, The reported toxic effects relate to the nominal concentration. (analogy)
Toxicity to Aquatic Plants Product:	EC 50, Desmodesmus subspicatus (green algae), 72 h, > 173 mg/l, OECD 201, (analogy)

Toxicity to microorganisms<br/>Product:EC 50, local activated sludge, 3 h, > 2,500 mg/l, OECD 209, (analogy)

Chronic hazards to the aquatic environment:

Fish<br/>Product:No data available.Aquatic Invertebrates<br/>Product:No data available.Toxicity to microorganisms<br/>Product:Ec 50, local activated sludge, 3 h, > 2,500 mg/l, OECD 209, (analogy)BiodegradationEct 50, local activated sludge, 3 h, > 2,500 mg/l, OECD 209, (analogy)



Product:	The methods designed to assess persistence and biodegradability are not applicable to this product, in analogy to inorganic substances.		
BOD/COD Ratio			
Product:	No data available.		
Bioaccumulative potential			
Bioconcentration Factor (BC Product:	<b>CF)</b> Not to be expected		
Partition Coefficient n-octan Product:	<b>ol / water (log Kow</b> , Not applicable	)	
Mobility in soil:			
Product:	No remarkable mot	pility in soil is to be expected.	
Results of PBT and vPvB ass	essment:		
Product:	No data available.		
Other adverse effects:			
Other hazards Product:	An Expert Judgmer present knowledge	nt stated that no classification is necessary based on	
13. Disposal considerations			
Disposal methods:	Waste must be d and local regulati	sposed of in accordance with federal, state, provincial ons.	
Contaminated Packaging:	Packaging material should be recycled or disposed of in accordance with federal, state and local regulations.		
14. Transport information			
Domestic regulation			
49 CFR			
Not regulated as a dangerous g Remarks	<ul> <li>good</li> <li>Not subject to Division 4.2 in packagings equal or less than 3 cbm. If in packagings (bags, big bags or silos) exceeding a volume of 3 cbm, the material has to be classified in Division 4.2, UN 3190, III., Air shipments must not exceed a quantity of 3 cbm (in big bags or in paper bags on pallets as well) in the same aircraft., To be stowed away from any source of heat (such as heatable fuel tanks, steam piping, etc.)</li> </ul>		
International Regulations			
<b>UNRTDG</b> Not regulated as a dangerous g	ood		
IATA-DGR Not regulated as a dangerous g	ood		
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#### 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 (on the basis of current knowledge of the product composition).

# 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 (on the basis of current knowledge of the product composition).

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### **Hazard categories**

Combustible dust

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

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

#### US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

#### **US State Regulations**

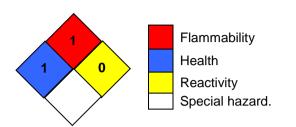
#### **US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.



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

#### **NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Version #:	1.3
Generation date:	04/22/2024
Date of first report version:	06/03/2019

#### Abbreviations and acronyms:

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx -Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS -Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO -International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL -Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 -Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate: NTP - National Toxicology Program: NZIoC - New Zealand Inventory of Chemicals: OECD -Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature: SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI -Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods: vPvB - Very Persistent and Very **Bioaccumulative** 

No data available.

**Revision Information** 

Changes since the last version are highlighted in the margin. This version replaces all previous versions.



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