

Version: 1.2 Revision Date: 02/14/2023

SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

1. Identification

Product identifier: SURFYNOL® DF-58 Chemical name: Siloxane

Other means of identification None.

Recommended restrictions

Recommended use: Industrial use Restrictions on use: None known.

Manufacturer/Importer/Distributor Information

Compa	any Name :	:	Evonik Corporation Nutrition & Care PO Box 34628 Richmond, VA 23234 USA
Teleph	one :		+1 804 727 0700
Fax	:	:	+1 804 727 0845
E-mail	:		product-regulatory-services@evonik.com
• •	telephone numl ur Health :		er: +1 800 424 9300 (CHEMTREC - US & CA

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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

Health Hazards	
Serious Eye Damage/Eye Irritation	Category 2A
Toxic to reproduction	Category 2
Environmental Hazards	
Acute hazards to the aquatic environment	Category 3
Chronic hazards to the aquatic environment	Category 3

Label Elements

Hazard Symbol:



Signal Word:	Warning
Hazard Statement:	Causes serious eye irritation. Suspected of damaging fertility or the unborn child. Harmful to aquatic life with long lasting effects.
Precautionary Statements	
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash face, hands and any exposed skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required.
Response:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.
azard(s) not otherwise assified (HNOC):	None.

3. Composition/information on ingredients

Chemical name:

Siloxane

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Silsesquioxanes, methyl, ethoxy terminated, reaction products with polypropylene glycol		115341-02-1	30 - 60%
Propanoic acid, 2-methyl-, 1,1'-[2,2- dimethyl-1-(1-methylethyl)-1,3- propanediyl] ester		6846-50-0	10 - 30%
White mineral oil (petroleum)		8042-47-5	10 - 30%
octamethylcyclotetrasiloxane		556-67-2	0 - 0.1%

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

The exact concentration has been withheld as a trade secret.



4. First-aid measures

Description of necessary first-aid measures		
General information:	Immediately remove contaminated clothing.	
Inhalation:	fresh air supply, consult a doctor if feeling unwell.	
Skin Contact:	In case of contact with skin wash off with soap and water. If skin irritation persists, call a physician.	
Eye contact:	In case of contact with eyes rinse thoroughly with plenty of water. If symptoms persist, seek medical advice.	
Ingestion:	Give copious water in small draughts. Do not induce vomiting.	
Personal Protection for First-aid Responders:	No data available.	
Most important symptoms and effects, both acute and delayed		
Symptoms:	Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat.	
Hazards:	No data available.	
Indication of immediate medical attention and special treatment needed		
Treatment:	Treat symptomatically.	
5. Fire-fighting measures		

Suitable (and unsuitable) extinguishir Suitable extinguishing media:	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
Unsuitable extinguishing media:	High volume water jet.
Special hazards arising from the substance or mixture:	This material will flash but does not sustain combustion. Incomplete combustion may form carbon monoxide. May generate sulfur dioxide. No special precautions.Incomplete combustion may form carbon monoxide. Fire or intense heat may cause violent rupture of packages. May form explosive mixtures in air. Burning produces noxious and toxic fumes. In the event of fire, cool tanks with water spray. May generate sulfur dioxide.

Special protective equipment and precautions for firefighters

Special fire fighting procedures:	No data available.
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Special protective equipment for fire- No data available. fighters:

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Use self-contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, gloves and eye/face protection. Remove sources of ignition.

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Accidental release measures:	No data available.
Methods and material for containment and cleaning up:	Use mechanical handling equipment. Use a liquid-binding material to take up small amounts diatomaceous earth
Environmental Precautions:	Do not allow to enter drains or waterways Prevent product from getting into subsoil/soil.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):	Apply process controls to ensure safe operating conditions. Assess potential flammability hazards based on flashpoint and potential ignition sources. Ensure adequate ventilation.
Safe handling advice:	Avoid breathing vapors and/or aerosols. Avoid contact with eyes. Use only in well-ventilated areas.See "Flammable and Combustible Liquid Code" NFPA No. 30, National Fire Protection Association, Boston, MA.
Contact avoidance measures:	No data available.
Storage	
Safe storage conditions:	Protect from frost.Keep away from open flames, hot surfaces and sources of ignition.Keep containers tightly closed in a dry, cool and well-ventilated place. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat and sources of ignition. Keep in a dry, cool place. Keep away from oxidizers.
Safe packaging materials:	No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source
White mineral oil (petroleum) - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2016)
White mineral oil (petroleum) - Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

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



Appropriate Engineering Controls	Apply process controls to ensure safe operating conditions. Assess potential flammability hazards based on flashpoint and potential ignition sources. Ensure adequate ventilation.
Individual protection measures, such as pe	ersonal protective equipment
Eye/face protection:	Wear tight-fitting goggles or face shield.
Skin Protection Hand Protection:	Material: Butyl rubber. Break-through time: 60 - 120 min Additional Information: The suitability for a specific workplace should be discussed with the producers of the protective gloves., The selected protective gloves have to satisfy the specifications of EC Regulation 2016/425 and the standard EN 374 derived from it.
Skin and Body Protection:	protective clothing
Respiratory Protection:	in case of formation of vapours/aerosols: Respiratory protection mask with combination filter A-P2
Hygiene measures:	Wash hands before breaks and immediately after handling the product. Do not eat, drink, smoke, or sniff while at work. Wash your hands and/or face before breaks and before termination of work. Remove soiled or soaked clothing immediately.

9. Physical and chemical properties

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Information on basic physical and chemical properties Appearance

Appearance	
Physical state:	liquid
Form:	liquid
Color:	Colorless
Odor:	Slight
Odor Threshold:	not measured
Freezing point:	Not applicable
Boiling Point:	not measured
Flammability:	not measured
Upper/lower limit on flammability or	explosive limits
Explosive limit - upper:	not measured
Explosive limit - lower:	not measured
Flash Point:	No data available.
Autoignition Temperature:	not measured
Decomposition Temperature:	> 428 °F/> 220 °C
pH:	Not applicable
Viscosity	
Dynamic viscosity:	10 - 300 mPa.s (77 °F/25 °C)
Kinematic viscosity:	No data available.

Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	Insoluble
Solubility (other):	Insoluble
Partition coefficient (n- octanol/water):	Not applicable
Vapor pressure:	not measured
Relative density:	Approximate 0.985 (68 °F/20 °C) (DIN 51757)
Density:	Approximate 0.985 g/cm3 (68 °F/20 °C)
Bulk density:	No data available.
Relative vapor density:	No data available.
Other information	
Explosive properties:	not measured
Oxidizing properties:	not measured
Minimum ignition temperature:	680 °F/360 °C
Metal Corrosion:	No data available.
Evaporation Rate:	not measured

10. Stability and reactivity

Reactivity:	see section "Possibility of hazardous reactions".
Chemical Stability:	The product is stable under normal conditions.
Possibility of hazardous reactions:	No hazardous reactions with proper storage and handling
Conditions to avoid:	Heat, flames and sparks.
Incompatible Materials:	Oxidizing agents.
Hazardous Decomposition Products:	Carbon Monoxide. Carbon Dioxide. Silicon Dioxide. At temperatures of approximately 150C (302F) a small amount of formaldehyde can be released by oxidative degradation.

11. Toxicological information

Information on toxicological effects

Information on likely routes of exposure

Inhalation:	If handled correctly, not a relevant route of exposure. Information on effects are given below.
Skin Contact:	Relevant route of exposure. Information on effects are given below.
Eye contact:	Relevant route of exposure. Information on effects are given below.
Ingestion:	If handled correctly, not a relevant route of exposure. Information on effects are given below.



Acute toxicity (list all possible routes of exposure)

Oral Product:	LD 50 (Rat): > 4,925 mg/kg		
Dermal Product:	LD 50 (Rat): > 2,069 mg/kg		
Inhalation Product:	Not classified for acute toxicity based on available data.		
Repeated dose toxicity Product:	No data available.		
Skin Corrosion/Irritation Product:	Not irritant (Rabbit): Not irritating;		
Serious Eye Damage/Eye Irrita Product:	tion Based on available data, the classification criteria are not met.		
Respiratory or Skin Sensitizati Product:	on No data available.		
Carcinogenicity Product:	No data available.		
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogens present or none present in regulated quantities			
ACGIH: US.ACGIH Threshold L No carcinogens present or no	.imit Values: ne 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 1910.1001-1050), as amended: No carcinogens present or none present in regulated quantities			
Germ Cell Mutagenicity			
No data is available on the pro-	duct itself.		
In vitro Product: Components:	No data available.		
octamethylcyclotetrasilox ane	Ames test (OECD 471): negative Chromosomal aberration (OECD 473): negative gene mutation test (OECD 476): negative		
In vivo Product: Components:	No data available.		
octamethylcyclotetrasilox ane	Micronucleus test (OECD 474) Inhalation - vapor (Rat): negative Chromosomal aberration (OECD 478) Oral (Rat): negative Chromosomal aberration (OECD 475) Inhalation - vapor (Rat, Female, Male): negative		
Reproductive toxicity Product:	No data is available on the product itself.		



Specific Target Organ Toxicity - Single ExposureProduct:No data available.	
Specific Target Organ Toxicity Product:	- Repeated Exposure No data available.
Aspiration Hazard Product:	Not classified
Information on health hazards	
Other hazards Product:	The properties of this product which are hazardous to health have been calculated as per regulation (EC) No. 1272/2008. See section 2 "Hazards Identification".;

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product:	LC 50 (Zebra danio (Danio rerio), 96 h): 100 mg/l	
Aquatic Invertebrates Product:	No data is available on the product itself.	
Toxicity to Aquatic Plants Product: Components: Propanoic acid, 2-methyl- , 1,1'-[2,2-dimethyl-1-(1- methylethyl)-1,3- propanediyl] ester octamethylcyclotetrasilox ane	No data available. EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 7.49 mg/l (OECD 201)	
	EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 22 μg/l (US-EPA- method) EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 22 μg/l (US-EPA- method)	
Toxicity to microorganisms Product:	No data available.	
Chronic hazards to the aquatic environment:		
Fish Product:	No data available.	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product: Components:	No data available.	
Propanoic acid, 2-methyl- , 1,1'-[2,2-dimethyl-1-(1- methylethyl)-1,3-	NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 3.56 mg/l (OECD 201)	
propanediyl] ester octamethylcyclotetrasilox ane	NOEC (Algae (Pseudokirchneriella subcapitata), 96 h): < 22 µg/l (US-EPA- method)	
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	Toxicity to microorganisms Product:	No data available.	
Ре	rsistence and Degradability		
	Biodegradation Product:	72 % (15 d), Readily biodegradable	
	BOD/COD Ratio Product:	No data available.	
Bio	baccumulative potential		
	Bioconcentration Factor (BCF) Product:	Will not bio-accumulate.	
	Partition Coefficient n-octanol Product:	/ water (log Kow) Log Kow: Not applicable	
Мо	bility in soil:		
	Product	No data available.	
Re	sults of PBT and vPvB assessr	nent:	
	Product	No data available.	
Otl	her adverse effects:		
	Other hazards Product:	The product is classified as slightly hazardous to waters (according to the German Regulation on the Classification of Substances Hazardous to Waters (WwSV). Do not allow to enter soil, waterways or waste water canal.	
13.	Disposal considerations		
	Disposal methods:	Waste must be disposed of in accordance with federal, state, provinc and local regulations.	cial
	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	bod	
	International Regulations		
	UNRTDG Not regulated as a dangerous ge	bod	
	IATA-DGR Not regulated as a dangerous ge Remarks :	ood Not Dangerous Good of Class 3 - IATA-DGR 3.3.1.3 / ICAO 3.1.3 - Substance do not sustain combustion!	
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IMDG-Code

Not regulated as a dangerous good Remarks : Not Dange

Not Dangerous Good of Class 3 - IMDG-Code 2.3.1.3 -Substance do not sustain combustion!

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), as amended 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

Serious eye damage or eye irritation, Reproductive toxicity

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.

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

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

None present of none present in regulated qualitaties.

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.

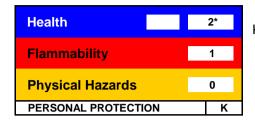
Inventory Status:

US TSCA Inventory:	Included on Inventory.	
Canada DSL Inventory List:	Included on Inventory.	



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

HMIS Hazard ID



K - Hood, Gloves, Protective Suit & Boots

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

Issue Date:	03/13/2019
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Further Information:	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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