

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 6.13 Revision Date 08.11.2024 Print Date 04.05.2025

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Antifoam A Concentrate

Product Number : A5633 Brand : Sigma

REACH No. : This product is a mixture. REACH Registration Number see

section 3.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3

CHEMIKART

1.4 Emergency telephone

Emergency Phone # : 000 800 1007 141 (CHEMTREC)

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Short-term (acute) aquatic H400: Very toxic to aquatic life.

hazard, (Category 1)

Long-term (chronic) aquatic H410: Very toxic to aquatic life with long

hazard, (Category 1) lasting effects.

### 2.2 Label elements

# Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal Word Warning

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**Hazard Statements** 

Very toxic to aquatic life with long lasting effects. H410

**Precautionary Statements** 

Avoid release to the environment. P273

P391 Collect spillage.

P501 Dispose of contents/ container to an approved waste disposal

plant.

Supplemental Hazard

Statements

none

none

# Reduced Labeling (<= 125 ml)

Pictogram

Signal Word Warning **Hazard Statements** none

**Precautionary Statements** none Supplemental Hazard

Statements

### 2.3 Other hazards

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

# **Ecological information:**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

# **SECTION 3: Composition/information on ingredients**

### 3.2 **Mixtures**

Component		Classification	Concentration	
Octamethylcyclotetrasiloxane Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)				
EC-No. 209	5-67-2 9-136-7 4-018-00-1	Flam. Liq. 3; Repr. 2; Aquatic Acute 1; Aquatic Chronic 1; H226, H361f, H400, H410 M-Factor - Aquatic Acute: 10 - Aquatic Chronic: 10	>= 3 - < 10 %	
DIMETHYLCYCLOSILOXANES				
		Acute Tox. 4; H302	>= 1 - < 10 %	

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*			
<b>Decamethylcyclopentasiloxane</b> Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)			
CAS-No. EC-No.	541-02-6 208-764-9		>= 1 - < 10 %
	*		

<sup>\*</sup>A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, or the annual tonnage does not require a registration.

For the full text of the H-Statements mentioned in this Section, see Section 16.

### **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

### If inhaled

After inhalation: fresh air.

### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

### In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

### If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

# 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

# 4.3 Indication of any immediate medical attention and special treatment needed

The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

# Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Foam Carbon dioxide (CO2) Dry powder

### Unsuitable extinguishing media

noneFor this substance/mixture no limitations of extinguishing agents are given.

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides

silicon oxides

Formaldehyde

Carbon oxides

silicon oxides

Exposure to decomposition products may be a hazard to health.

Combustible.

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Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

### **5.3** Advice for firefighters

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

### 5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

# 6.2 Environmental precautions

Do not let product enter drains.

# 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

### **6.4** Reference to other sections

For disposal see section 13.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

### **Storage conditions**

Tightly closed.

# Storage class

Storage class (TRGS 510): 10: Combustible liquids

# 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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### SECTION 8: Exposure controls/personal protection

# 8.1 Control parameters

### **Ingredients with workplace control parameters**

# 8.2 Exposure controls

### Personal protective equipment

### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

### Skin protection

not required

# **Respiratory protection**

Not required; except in case of aerosol formation.

### Control of environmental exposure

Do not let product enter drains.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

a) Physical state liquid
b) Color No data available
c) Odor No data available
d) Melting No data available point/freezing point

e) Initial boiling point 200 °C and boiling range

f) Flammability (solid, No data available gas)

g) Upper/lower No data available flammability or explosive limits

h) Flash point > 101 °C - closed cup

i) Autoignition No data available temperature

j) Decomposition No data available temperature

k) pH No data available

I) Viscosity Viscosity, kinematic: 1500 mm2/s

Viscosity, dynamic: No data available

m) Water solubilityNo data availablen) Partition coefficient:No data available

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n-octanol/water

o) Vapor pressure No data availablep) Density 0,97 g/mL at 25 °C

Relative density 0,97

q) Relative vapor

density

r) Particle No data available

characteristics

s) Explosive properties Not applicable

t) Oxidizing properties The substance or mixture is not classified as oxidizing.

### 9.2 Other safety information

No data available

### **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

Not classified as a reactivity hazard.

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

# 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

Violent reactions possible with:

### 10.4 Conditions to avoid

Strong heating.

# 10.5 Incompatible materials

Strong oxidizing agents

# 10.6 Hazardous decomposition products

In the event of fire: see section 5

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### **Mixture**

### **Acute toxicity**

Acute toxicity estimate Oral - > 2.000 mg/kg

(Calculation method)

Acute toxicity estimate Inhalation - 4 h - > 40 mg/l - vapor(Calculation method)

Acute toxicity estimate Dermal - > 5.000 mg/kg (Calculation method)

### Skin corrosion/irritation

Remarks: Based on available data, the classification criteria are not met.

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### Serious eye damage/eye irritation

Remarks: Based on available data, the classification criteria are not met.

### Respiratory or skin sensitization

No data available

# Germ cell mutagenicity

In vitro tests did not show mutagenic effects

Test Type: Ames test Result: negative

# Carcinogenicity

No data available

# Reproductive toxicity

Reproductive toxicity- Rat- male and female- Ingestion

No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Developmental Toxicity- Rat- male and female

# Specific target organ toxicity - single exposure

No data available

### Specific target organ toxicity - repeated exposure

No data available

### Aspiration hazard

No data available

### 11.2 Additional Information

# **Endocrine disrupting properties**

### **Product:**

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Repeated dose toxicity - Rat - Ingestion

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

# Components

### Octamethylcyclotetrasiloxane

# **Acute toxicity**

LD50 Oral - Rat - male - > 4.800 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - 36 mg/l - dust/mist

(OECD Test Guideline 403)

LD50 Dermal - Rat - male and female - > 2.400 mg/kg

(OECD Test Guideline 402)

Remarks: (IUCLID)

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### Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 24 h (OECD Test Guideline 404)

# Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation (OECD Test Guideline 405)

### Respiratory or skin sensitization

Maximization Test - Guinea pig

Result: Does not cause skin sensitization.

(OECD Test Guideline 406)

# **Germ cell mutagenicity**

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells

Result: negative Test Type: Ames test

Test system: S. typhimurium

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: Mouse lymphoma test

Result: negative

Method: OECD Test Guideline 475 Species: Rat - male and female

Result: negative

Method: OECD Test Guideline 478

Species: Rat - male and female - Bone marrow

Result: negative

# Carcinogenicity

No data available

# Reproductive toxicity

Suspected of damaging fertility. Suspected of damaging fertility.

# Specific target organ toxicity - single exposure

No data available

# Specific target organ toxicity - repeated exposure

### **Aspiration hazard**

No data available

### **DIMETHYLCYCLOSILOXANES**

# **Acute toxicity**

Oral: No data available Inhalation: No data available Dermal: No data available

### Skin corrosion/irritation

No data available

### Serious eye damage/eye irritation

No data available

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### Respiratory or skin sensitization

No data available

# **Germ cell mutagenicity**

No data available

# Carcinogenicity

No data available

# Reproductive toxicity

No data available

### Specific target organ toxicity - single exposure

No data available

# Specific target organ toxicity - repeated exposure

No data available

# **Aspiration hazard**

No data available

# Decamethylcyclopentasiloxane

# **Acute toxicity**

LD50 Oral - Rat - > 5.000 mg/kg (OECD Test Guideline 401)
LC50 Inhalation - Rat - male and female - 4 h - 8,67 mg/l - aerosol (OECD Test Guideline 403)
LD50 Dermal - Rabbit - male and female - > 2.000 mg/kg (OECD Test Guideline 402)

### Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 24 h (OECD Test Guideline 404)

# Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation - 24 h (OECD Test Guideline 405)

### Respiratory or skin sensitization

in vivo assay - Mouse

Result: Does not cause skin sensitization.

(OECD Test Guideline 429)

# Germ cell mutagenicity

Test Type: Ames test

Test system: S. typhimurium

Result: negative

Method: OECD Test Guideline 486 Species: Rat - male and female

Result: negative

### Carcinogenicity

No data available

# Reproductive toxicity

No data available

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### Specific target organ toxicity - single exposure

No data available

### Specific target organ toxicity - repeated exposure

### **Aspiration hazard**

No data available

# **SECTION 12: Ecological information**

### 12.1 Toxicity

### **Mixture**

No data available

# 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

# 12.6 Endocrine disrupting properties

# **Product:**

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

No data available

# **Components**

### Octamethylcyclotetrasiloxane

Toxicity to fish flow-through test LC50 - Oncorhynchus mykiss (rainbow trout)

- > 0.022 mg/l - 96 h

(US-EPA)

Toxicity to daphnia

and other aquatic invertebrates

mg/l - 48 h (US-EPA)

Toxicity to algae

ErC50 - Pseudokirchneriella subcapitata - > 0,022 mg/l - 96 h

flow-through test EC50 - Daphnia magna (Water flea) - > 0,015

(US-EPA)

Toxicity to

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flow-through test NOEC - Oncorhynchus mykiss (rainbow trout)

fish(Chronic toxicity)

- > = 0.0044 mg/l - 93 d

Remarks: (ECHA)

Toxicity to daphnia

flow-through test NOEC - Daphnia magna (Water flea) - 0,0079

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and other aquatic mg/l - 21 d

invertebrates(Chronic (US-EPA)
toxicity)

### **DIMETHYLCYCLOSILOXANES**

No data available

### **Components**

# Decamethylcyclopentasiloxane

No toxicity at the limit of solubility.

# **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

No data available

# **SECTION 14: Transport information**

14.1 UN number

ADR/RID: 3082 IMDG: 3082 IATA: 3082

14.2 UN proper shipping name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Octamethylcyclotetrasiloxane) (Octamethylcyclotetrasiloxane)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Octamethylcyclotetrasiloxane) (Octamethylcyclotetrasiloxane)

IATA: Environmentally hazardous substance, liquid, n.o.s.

(Octamethylcyclotetrasiloxane) (Octamethylcyclotetrasiloxane)

14.3 Transport hazard class(es)

ADR/RID: 9 IMDG: 9 IATA: 9

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: yes IMDG Marine pollutant: yes IATA: yes

14.6 Special precautions for user

Tunnel restriction code : (-)

### **Further information**

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.Packages smaller than or equal to 5 kg / L , not dangerous goods of Class 9

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# **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

E1

### Authorisations and/or restrictions on use

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

: Decamethylcyclopentasiloxane

: Decamethylcyclopentasiloxane Octamethylcyclotetrasiloxane

### **National legislation**

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

**ENVIRONMENTAL HAZARDS** 

### Other regulations

Take note of Dir 94/33/EC on the protection of young people at work.

### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

### **SECTION 16: Other information**

### **Full text of H-Statements**

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H361f	Suspected of damaging fertility
H400	Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM -American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; n.o.s. Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; 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

### Classification of the mixture Classification procedure:

Aquatic Acute1 H400 Calculation method
Aquatic Chronic1 H410 Calculation method

### **Further information**

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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# CHEMIKART

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