

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 15.12.2023

Version: 8.00 (replaces version 7.00)

Revision: 16.10.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** SONAX Flocculant**Article number:**

05516000, 05517000

UFI: UFK3-40PN-500K-FGY0**1.2 Relevant identified uses of the substance or mixture and uses advised against****Application of the substance / the mixture**

Flocculant/ Flocculating agent

Processing aid

Professional uses

Uses advised against Consumer uses: Private households / general public / consumers**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

SONAX GmbH

Münchener Straße 75

D-86633 Neuburg (Donau)

Tel.: ++49 (0)8431/53-0

Further information obtainable from:

Product safety

E-mail: erp@sonax.de

Phone: + +49 (0) 8431 53 217

United Kingdom:

Anglo American Oil Company Ltd

58 Holton Road, Holton Heath Trading Park, Poole, Dorset, BH16 6LT

Telephone: (+44) 01929 551557

Email: info@aaoil.co.uk**1.4 Emergency telephone number:****European Union:** +49 (0) 89 19240 (Poison Centre Munich)**United Kingdom:** 0344 892 0111 (UK NPIS)

Members of Public in England, Scotland and Wales can contact NHS 111/NHS 24 by dialling 111

In Northern Ireland, contact your local GP

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Met. Corr.1 H290 May be corrosive to metals.

Eye Dam. 1 H318 Causes serious eye damage.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms

GHS05

Signal word Danger**Hazard-determining components of labelling:**

Aluminium hydroxide chloride

Hazard statements

H290 May be corrosive to metals.

H318 Causes serious eye damage.

Precautionary statements

P280 Wear eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

(Contd. on page 2)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.12.2023

Version: 8.00 (replaces version 7.00)

Revision: 16.10.2023

(Contd. of page 1)

P310 Immediately call a POISON CENTER/doctor.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:**

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as PBT

vPvB:

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as vPvB.

Determination of endocrine-disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to UK 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

Description: Aluminium hydroxide chloride in aqueous solution

Dangerous components:

CAS: 1327-41-9	Aluminium hydroxide chloride	20-<50%
EINECS: 215-477-2	Met. Corr. 1, H290; Eye Dam. 1, H318	
Reg.nr.: 01-2119531563-43-xxxx		

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Remove soiled clothing

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Wash the areas of skin affected with water and a mild detergent.

If symptoms persist consult doctor.

After eye contact:

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Eye irritation / Eye damage

Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treatment in accordance with the doctor's assessment of the patient's condition. Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Hydrogen chloride (HCl)

5.3 Advice for firefighters

Protective equipment:

Wear fully protective suit.

Do not enter the hazardous area without a self-contained breathing apparatus.

See Section 8 for information on personal protection equipment.

(Contd. on page 3)

GB

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 15.12.2023

Version: 8.00 (replaces version 7.00)

Revision: 16.10.2023

(Contd. of page 2)

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation**For non-emergency personnel**

The usual precautionary measures are to be adhered to when handling chemicals.

Avoid contact with the eyes and skin.

For emergency responders Wear protective equipment. Keep unprotected persons away.**6.2 Environmental precautions:**

Do not allow to penetrate the ground/soil.

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage**7.1 Precautions for safe handling** No special precautions are necessary if used correctly.**Information about fire - and explosion protection:**

The product is not flammable.

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:** Provide acid-resistant floor.**Information about storage in one common storage facility:**

Store away from oxidising agents.

Store away from metals.

Store away from foodstuffs.

Observe local/state/federal regulations.

Further information about storage conditions:

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Store only in the original receptacle.

Keep container tightly sealed.

Protect from frost.

Recommended storage temperature: 20 °C.

7.3 Specific end use(s) No further relevant information available.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs**CAS: 1327-41-9 Aluminium hydroxide chloride**

Oral	DNEL	2.3 mg/kg bw/day (consumer)
Dermal	DNEL	2.32 mg/bw/day (consumer)
		4.6 mg/bw/day (worker)
Inhalative	DNEL	4 mg/m ³ (consumer)
	DNEL	16.4 mg/m ³ (worker)

(Contd. on page 4)

GB

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 15.12.2023

Version: 8.00 (replaces version 7.00)

Revision: 16.10.2023

(Contd. of page 3)

PNECs**CAS: 1327-41-9 Aluminium hydroxide chloride**

PNEC 20 mg/l (STP)

PNEC 0.3 µg/l (water (fresh water))

0.03 µg/l (water (sea water))

Additional information: The lists valid during the making were used as basis.**8.2 Exposure controls****Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

The following breathing protection is recommended:

Short term filter device:

Filter B/P2

Hand protection Acid resistant gloves**Material of gloves** Fluorocarbon rubber (Viton)**Penetration time of glove material** Value for the permeation: Level 6 (≥ 480 min)**Eye/face protection**

Safety glasses

[EN 166]

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****General Information****Physical state**

Fluid

Colour:

Light brown

Odour:

Nearly odourless

Melting point/freezing point:

Undetermined.

Boiling point or initial boiling point and boiling range

100 °C (CAS: 7732-18-5 water)

Flammability

Product is not flammable.

Lower and upper explosion limit**Lower:**

Not applicable

Upper:

Not applicable

Flash point:

Not applicable.

Decomposition temperature:

Not determined.

pH at 20 °C

2

Viscosity:**Kinematic viscosity at 40 °C**>20.5 mm²/s**Solubility****water:**

Fully miscible.

Partition coefficient n-octanol/water (log value)

Not determined.

Vapour pressure at 20 °C:

23 hPa (CAS: 7732-18-5 water)

Density and/or relative density**Density at 20 °C:**1.29-1.39 g/cm³**Vapour density**

Not determined.

9.2 Other information**Appearance:****Form:**

Fluid

Important information on protection of health and environment, and on safety.**Ignition temperature:**

Product is not selfigniting.

Explosive properties:

Product does not present an explosion hazard.

Change in condition**Evaporation rate**

Not determined.

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 15.12.2023

Version: 8.00 (replaces version 7.00)

Revision: 16.10.2023

(Contd. of page 4)

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	
May be corrosive to metals.	
Desensitised explosives	Void

SECTION 10: Stability and reactivity**10.1 Reactivity** No dangerous reactions known.**10.2 Chemical stability** Stable under normal conditions.**10.3 Possibility of hazardous reactions** No dangerous reactions known.**10.4 Conditions to avoid**

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

See Section 7 for information on safe handling.

10.5 Incompatible materials:

caustic solutions

Store away from metals.

10.6 Hazardous decomposition products: Hydrogen chloride (HCl)**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:**

Oral	LD50	3,450 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

CAS: 1327-41-9 Aluminium hydroxide chloride

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD 50	>2,000 mg/kg (rat)
Inhalative	LC50 / 4h	>5 mg/l (rat)

Skin corrosion/irritation Based on available data, the classification criteria are not met.**Serious eye damage/irritation** Causes serious eye damage.**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.**Germ cell mutagenicity** Based on available data, the classification criteria are not met.**Carcinogenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity** Based on available data, the classification criteria are not met.**STOT-single exposure** Based on available data, the classification criteria are not met.**STOT-repeated exposure** Based on available data, the classification criteria are not met.**Aspiration hazard** Based on available data, the classification criteria are not met.

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 15.12.2023

Version: 8.00 (replaces version 7.00)

Revision: 16.10.2023

(Contd. of page 5)

Additional toxicological information:**Repeated dose toxicity****CAS: 1327-41-9 Aluminium hydroxide chloride**

Oral	NOAEL	5 ppm (rat)
	NOAEL 1Jahr	3,225 mg/kg bw/Tag (rat)
	NOAEL 28 d	1,000 mg/kg (rat)
		1,000 mg/kg (Ratte)
	LOEC 90 d	15.3 mg/l (rat)

11.2 Information on other hazards**Endocrine disrupting properties**

According to the current state of scientific knowledge, there is no data for the product regarding endocrine disrupting properties with health effects.

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity There are no ecotoxicological data available on this mixture.

Aquatic toxicity:**CAS: 1327-41-9 Aluminium hydroxide chloride**

NOEC / 8d	3.8 mg/l (Ceriodaphnia Dubia)
LC50 / 96 h	186 mg/l (Danio rerio)
EC50/3h	>1,000 mg/l (Belebtschlammorganismen)
EC50 / 48h	98 mg/l (Daphnia magna)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment**PBT:**

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as PBT

vPvB:

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as vPvB

12.6 Endocrine disrupting properties

According to the current state of scientific knowledge, there is no data for the product regarding endocrine disrupting properties with effects on the environment.

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects**Additional ecological information:****General notes:**

The product may not be released into the environment without control.

The product does not contain organically bounded halogens (AOX-free).

The product does not contain organic complexing agents.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste classified as hazardous according to Annex III to Directive 2008/98/EC.

Recommendation Waste must be disposed of while observing the local, official regulations.

European waste catalogue

16 03 03*	inorganic wastes containing hazardous substances
HP4	Irritant - skin irritation and eye damage

Uncleaned packaging:

15 01 10*: packaging containing residues of or contaminated by dangerous substances

Recommendation:

Packaging may be reused or recycled after cleaning.

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 15.12.2023



Version: 8.00 (replaces version 7.00)

Revision: 16.10.2023

15 01 02: plastic packaging
Recommended cleansing agents: Water

(Contd. of page 6)

SECTION 14: Transport information

14.1 UN number or ID number ADR/RID/ADN, IMDG, IATA	UN3264
14.2 UN proper shipping name ADR/RID/ADN IMDG, IATA	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ALUMINIUM HYDROXIDE CHLORIDE) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ALUMINIUM HYDROXIDE CHLORIDE)
14.3 Transport hazard class(es) ADR/RID/ADN	
	
Class Label	8 (C1) Corrosive substances. 8
IMDG, IATA	
	
Class Label	8 Corrosive substances. 8
14.4 Packing group ADR/RID/ADN, IMDG, IATA	III
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Warning: Corrosive substances.
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
Transport/Additional information:	
ADR/RID/ADN Limited quantities (LQ) Transport category Tunnel restriction code	5L 3 E
UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ALUMINIUM HYDROXIDE CHLORIDE), 8, III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
European Directives:
Directive 2010/75/EU (VOC) not subject to
Catégorie SEVESO (DIRECTIVE 2012/18/EU) not subject to
REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

(Contd. on page 8)

GB

Safety data sheet
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Printing date 15.12.2023

Version: 8.00 (replaces version 7.00)

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(Contd. of page 7)

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

National regulations:**Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H290 May be corrosive to metals.

H318 Causes serious eye damage.

Classification according to Regulation (EC) No 1272/2008

Corrosive to metals

Bridging principles

Serious eye damage/irritation

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Date of previous version: 05.05.2022**Version number of previous version:** 7.00**Abbreviations and acronyms:**

NOEL = No Observed Effect Level

NOEC = No Observed Effect Concentration

LC = Lethal Concentration

EC50 = half maximal effective concentration

log POW = Octanol / water partition coefficient

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ATE: acute toxicity estimate

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IOELV = indicative occupational exposure limit values

Met. Corr. 1: Corrosive to metals – Category 1

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

*** Data compared to the previous version altered.**