

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

Printing date 28.10.2020

Version: 1.00

Revision: 08.05.2019

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

04701000, 04703000

UFI: 7KE0-40U3-000E-CANF**1.2 Relevant identified uses of the substance or mixture and uses advised against****Sector of Use**

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category PC35 Washing and cleaning products (including solvent based products)**Application of the substance / the mixture**

High-quality steel cleaner

Surface cleaning

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

1.4 Emergency telephone number: Emergency Phone Munich Tel.: +49 (0)89 19240**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

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

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

Hazard pictograms

GHS02

Signal word Danger**Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Precautionary statements

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P271 Use only outdoors or in a well-ventilated area.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.10.2020

Version: 1.00

Revision: 08.05.2019

Trade name: SONAX STAINLESS STEEL MAINTENANCE FOAM

(Contd. of page 1)

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Formulation consisting of pressurised gas and aqueous tenside solution

Dangerous components:

| | | |
|---|---|-----------|
| CAS: 8042-47-5 EINECS: 232-455-8 Reg.nr.: 01-2119487078-27-xxxx | White mineral oil, petroleum ⚠ Asp. Tox. 1, H304 | 20 - <25% |
| EC No 918-167-1 Reg.nr.: 01-2119472146-39-xxxx | Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics Alternative CAS numbers: 90622-57-4, 64742-48-9 ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304 | 10 - <15% |
| CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32-xxxx | butane ⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280 | 5 - <10% |
| CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21-xxxx | propane ⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280 | 5 - <10% |
| | phosphoric ester ⚠ Skin Irrit. 2, H315 | 1 - <3% |
| CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx | isobutane ⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280 | 1 - <3% |

Regulation (EC) No 648/2004 on detergents / Labelling for contents

| | |
|--|------------|
| aliphatic hydrocarbons | ≥15 - <30% |
| anionic surfactants, non-ionic surfactants | <5% |
| perfumes, limonene, citral, linalool | |

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:

Generally the product does not irritate the skin.

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

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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:

Foam

Fire-extinguishing powder

Carbon dioxide

Water spray

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:

Carbon monoxide (CO)

Carbon dioxide (CO2)

(Contd. on page 3)

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

Printing date 28.10.2020

Version: 1.00

Revision: 08.05.2019

Trade name: SONAX STAINLESS STEEL MAINTENANCE FOAM

(Contd. of page 2)

5.3 Advice for firefighters

Protective equipment:

Do not inhale explosion gases or combustion gases.

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.

Additional information

Cool endangered receptacles with water spray.

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

Keep away from ignition sources.

Ensure adequate ventilation

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.

6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Absorb liquid components with liquid-binding material.

Dispose contaminated material as waste according to item 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 Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:



Keep ignition sources away - Do not smoke.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

Highly volatile, flammable constituents are released during processing.

Fumes can combine with air to form an explosive mixture.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Prevent any seepage into the ground.

Observe official regulations on storing packagings with pressurised containers.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions:

Store receptacle in a well ventilated area.

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

Protect from heat and direct sunlight.

Protect from frost.

Recommended storage temperature: 20 °C.

7.3 Specific end use(s) No further relevant information available.

GB

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.10.2020

Version: 1.00

Revision: 08.05.2019

Trade name: SONAX STAINLESS STEEL MAINTENANCE FOAM

(Contd. of page 3)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 106-97-8 butane

| | |
|---------------------|---|
| WEL (Great Britain) | Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene) |
|---------------------|---|

Regulatory information WEL (Great Britain): EH40/2011

DNELs

CAS: 8042-47-5 White mineral oil, petroleum

| | | |
|------------|------|---|
| Oral | DNEL | 40 mg/kg (consumer) (long-term exposure - systemic effects) |
| Dermal | DNEL | 92 mg/kg bw/day (consumer) (long-term exposure - systemic effects) 220 mg/kg bw/day (worker) (long-term exposure - systemic effects) |
| Inhalative | DNEL | 35 mg/m ³ (consumer) (long-term exposure - systemic effects) |
| | DNEL | 160 mg/m ³ (worker) (long-term exposure - systemic effects) |

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Suitable technical control devices

Ensure good ventilation. This can be achieved by localised extraction or general ventilation. If this is not sufficient to keep the concentration below the occupational exposure limit, suitable breathing protection is to be worn.

Personal protective equipment:

General protective and hygienic measures:

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

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

Respiratory protection:

Not required in normal cases

If the occupational exposure limit is exceeded:

The following breathing protection is recommended:

Respiratory filter for organic gases and vapours (Type A)

Identification colour: Brown

[DIN EN 14387]

Protection of hands: Not required in normal cases.

Eye protection: Not required in normal cases

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

| | |
|---------|------------|
| Form: | Aerosol |
| Colour: | White |
| Odour: | Fruit-like |

| | |
|--------------------|--|
| pH-value at 20 °C: | 7.5 - 8.5 (Active ingredient data) |
|--------------------|--|

Change in condition

| | |
|--|---|
| Melting point/freezing point: | Undetermined. |
| Initial boiling point and boiling range: | 100 - 205 °C (Active ingredient data) |

| | |
|--------------|--|
| Flash point: | 66 °C (DIN 51755) (Active ingredient data) |
|--------------|--|

| | |
|----------------------------|-----------------|
| Flammability (solid, gas): | Not applicable. |
|----------------------------|-----------------|

(Contd. on page 5)

GB

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

Printing date 28.10.2020

Version: 1.00

Revision: 08.05.2019

Trade name: SONAX STAINLESS STEEL MAINTENANCE FOAM

(Contd. of page 4)

| | |
|--|--|
| Decomposition temperature: | Not determined. |
| Auto-ignition temperature: | Product is not selfigniting. |
| Explosive properties: | Not determined. |
| Explosion limits: | |
| Lower: | 0.6 Vol % (Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics) 1,5 Vol.% (Propellant data) |
| Upper: | 7 Vol % (Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics) 10,9 Vol.% (Propellant data) |
| Vapour pressure: | Not determined. |
| Density at 20 °C: | 0.90 - 0.91 g/cm ³ (Active ingredient data) |
| Relative density | Not determined. |
| Vapour density | Not determined. |
| Evaporation rate | Not applicable. |
| Solubility in / Miscibility with water: | Partly miscible. |
| Viscosity: | |
| Flow time at 20 °C | 10 - 15 s (DIN EN ISO 2431/4mm) (Active ingredient data) |
| Dynamic: | Not determined. |
| Kinematic at 40 °C: | <20.5 mm ² /s (Active ingredient data) |
| 9.2 Other information | No further relevant information available. |

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 Develops readily flammable gases/fumes.

10.4 Conditions to avoid

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

An increase in pressure may lead to bursting.

Keep ignition sources away - Do not smoke.

See Section 7 for information on safe handling.

10.5 Incompatible materials: strong oxidizing agents

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:
CAS: 8042-47-5 White mineral oil, petroleum

Oral LD50 >5000 mg/kg (rat)

Dermal LD50 >2000 mg/kg (rabbit)

Inhalative LC50/4d >5000 mg/l (rat)

Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics

Oral LD50 >5000 mg/kg (rat) (OECD 401)

Dermal LD50 >5000 mg/kg (rabbit) (OECD 402)

Inhalative LC50 / 4h >4951 mg/m³ (rat) (OECD 403)

CAS: 106-97-8 butane

Inhalative LC50/4d 658 mg/l (rat)

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.10.2020

Version: 1.00

Revision: 08.05.2019

Trade name: SONAX STAINLESS STEEL MAINTENANCE FOAM

(Contd. of page 5)

phosphoric ester

| | | |
|------|------|------------------------------|
| Oral | LD50 | >2000 mg/kg (rat) (OECD 401) |
| | DOC | 640 mg/g (Analogy) |

Primary irritant effect:**Skin corrosion/irritation** Based on available data, the classification criteria are not met.**Serious eye damage/irritation** Based on available data, the classification criteria are not met.**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

None of the ingredients are known to have effects which are carcinogenic, mutagenic or harmful to reproduction.

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.**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****CAS: 8042-47-5 White mineral oil, petroleum**

| | |
|------------|---------------------------|
| LC50 / 96h | >100 mg/l (fish) |
| EC50 / 48h | >100 mg/l (daphnia) |
| NOEC/NOEL | ≥100 mg/l (fish) (96h) |
| | ≥100 mg/l (algae) (72h) |
| | ≥100 mg/l (daphnia) (48h) |

Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics

| | |
|------------|---|
| LLO 96 h | 1000 mg/l (Oncorhynchus mykiss) |
| NOEC/NOEL | 0.011 mg/l (Daphnia magna) (21d) |
| NOELR 72 h | 1000 mg/l (Pseudokirchneriella subcapitata) |
| NOELR 21d | ≥1 mg/l (Daphnia magna) |
| ELO 48 h | 1000 mg/l (Daphnia magna) |
| ELO 72 h | 1000 mg/l (Pseudokirchneriella subcapitata) |

phosphoric ester

| | |
|-----------|----------------------------------|
| LC0 / 48h | 100 - 1000 mg/l (fish) (Analogy) |
| EC50 | >1000 mg/l (bacteria) (OECD 209) |

12.2 Persistence and degradability

The surface-active substances contained in the product meet the requirement of the EU Detergent Regulation (EC/648/2004) for ultimate biodegradability for surfactants in detergents.

CAS: 8042-47-5 White mineral oil, petroleum

| | |
|----------------|-------------------------|
| Biodegradation | >60 % (28d (OECD 301B)) |
|----------------|-------------------------|

Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics

| | |
|----------------|--------------|
| Biodegradation | 31.3 % (28d) |
|----------------|--------------|

phosphoric ester

| | |
|----------------|---------------------|
| CSB | 2140 mg/g (Analogy) |
| Biodegradation | >80 % (OECD 302 B) |

12.3 Bioaccumulative potential No further relevant information available.**12.4 Mobility in soil** No further relevant information available.

(Contd. on page 7)

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

Printing date 28.10.2020

Version: 1.00

Revision: 08.05.2019

Trade name: SONAX STAINLESS STEEL MAINTENANCE FOAM

(Contd. of page 6)

Additional ecological information:

General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

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

Disposal / product + Disposal / contaminated packaging

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

SECTION 14: Transport information

14.1 UN-Number

ADR, IMDG, IATA

UN1950

14.2 UN proper shipping name

ADR

1950 AEROSOLS

IMDG

AEROSOLS

IATA

AEROSOLS, flammable

14.3 Transport hazard class(es)

ADR



Class

2.1 5F

Label

2.1

IMDG, IATA



Class

2.1

Label

2.1

14.4 Packing group

ADR

Void

14.5 Environmental hazards:

Marine pollutant:

No

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ)

1L

Transport category

2

Tunnel restriction code

D

(Contd. on page 8)

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

Printing date 28.10.2020

Version: 1.00

Revision: 08.05.2019

Trade name: SONAX STAINLESS STEEL MAINTENANCE FOAM

(Contd. of page 7)

UN "Model Regulation":

UN 1950 AEROSOLS, 2.1

SECTION 15: Regulatory information

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

European Directives:

EC/1907/2006 (REACH)

EC/1272/2008 (CLP)

EC/648/2004

National regulations:

Information about limitation of use:

Employment restrictions concerning pregnant and lactating women must be observed.

Employment restrictions concerning juveniles 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

H220 Extremely flammable gas.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

Classification according to Regulation (EC) No 1272/2008

Aerosols On basis of test data

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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 européen sur le transport 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 (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IOELV = indicative occupational exposure limit values

Flam. Gas 1: Flammable gases – Category 1

Aerosol 1: Aerosols – Category 1

Press. Gas (Comp.): Gases under pressure – Compressed gas

Flam. Liq. 3: Flammable liquids – Category 3

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1