

Safety Data Sheet

According to Regulation (EC) Nr. 2015/830

Trade name: SonoCheck
Revision Date: 19.07.2021
Version: 3.4



01. Identification of the substance / mixture and of the company

Trade name

SonoCheck

Relevant identified uses

To provide a pass/fail detection of cavitation energy within an ultrasonic bath.

Manufacturer / supplier

Pereg GmbH

Street

Porschestraße 12

Postal code

D – 84478 Waldkraiburg

Telephone / Fax / E-Mail

+49 (0) 8638 84100 / +49 (0) 8638 84162 / E-mail: info@pereg.de

Emergency Telephone Number

Tel. +49 89 19240 (Poison Centre Munich)

02. Hazards identifications

Classification of the substance or mixture

This substance does not meet the criteria for classification in accordance with Regulation No1272/2008/EC.

Adverse environmental and human health effects

Not required.

03. Composition / information on ingredients

Description of the mixture

SonoCheck contain reagents and dye in aqueous solution

Hazardous ingredients

Bromthymol blue

Content: < 0,1%

Chloroform: Index-Nr.: 602-006-00-4; CAS-Nr.: 67-66-3, UN-Nr.:1888

Content: < 0,1%

Categorization: H302, 315, 319, 331, 351, 361d, 372

P202, 260, 302+352, 304+340,305+351+338, 308+313

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

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04. First aid measures

General information

No special measures required

Following inhalation

If inhaled, remove to fresh air. If breathing is difficult, get medical attention.

Following skin contact

Rinse with water

Following eye contact

Rinse with water (10-15min). In case of irritating effect get medical attention.

Following ingestion

Get medical attention.

Notes for the doctor

No data

05. Firefighting measures

Suitable extinguishing media

Foam, Carbon dioxide, extinguishing powder. Subject to normal conditions incombustible. Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable extinguishing media

No data

Special hazards arising from the substance and combustion products

When strong heating, formation of small amounts of hydrochloric acid possible.

Advice for fire-fighters

Fire-fighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.

06. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid contact with soil.

Environmental precautions

Do not allow to enter the sewerage system. Do not allow to enter groundwater or surface water.

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Methods and material for containment and cleaning up

Absorb with an inert dry material and place in an appropriate waste disposal container. Disposal considerations: see section 13.

Advices on how to clean up a spill

Wash affected area as usual.

07. Handling and storage

Precautions for safe handling

Don't open vial. Handle with care.

No special measures required

Advice on general occupational hygiene

Don't eat and drink at work. No smoking. Keep away from food.

Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

Store in original packaging. Store at +2°C to +25°C.

Store protected from light, heat and chemicals.

When the container is closed no incompatibilities are known.

Incompatible substances or mixtures

When the container is closed no incompatibilities are known.

Specific end use(s)

SonoCheck use only for checking the ultrasonic energy in the preparation of surgical instruments.

08. Exposure controls / personal protection

Control parameters

Bromthymol blue

N/A

Chloroform:

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of Agent	CAS-Nr.	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Source
EU	Chloroform	67-66-3	IOELV	2	10			2000/39/EC
DE	Chloroform	67-66-3	AGW	0,5	2,5	1	5	TRGS 900

Notation:

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average

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Relevant DNELs/DMELs/PNECs and other threshold levels

human health values

Name of agent	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Chloroform	DNEL	0,94 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Chloroform	DNEL	2,5 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Chloroform	DNEL	2,5 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Chloroform	DNEL	333 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects

environmental values

Name of agent	Endpoint	Threshold level	Environmental compartment	Exposure time
Chloroform	PNEC	0,56 mg/kg	soil	continuous
Chloroform	PNEC	0,048 mg/l	sewage treatment plant	continuous
Chloroform	PNEC	0,015 mg/l	marine water	continuous
Chloroform	PNEC	0,09 mg/kg	marine sediment	continuous
Chloroform	PNEC	0,45 mg/kg	freshwater sediment	continuous
Chloroform	PNEC	0,146 mg/l	freshwater	continuous
Chloroform	PNEC	0,133 mg/l	water	continuous
Chloroform	PNEC	0,146 mg/l	freshwater	short-term (single instance)
Chloroform	PNEC	0,015 mg/l	marine water	short-term (single instance)
Chloroform	PNEC	0,048 mg/l	sewage treatment plant	short-term (single instance)
Chloroform	PNEC	0,45 mg/kg	freshwater sediment	short-term (single instance)
Chloroform	PNEC	0,09 mg/kg	marine sediment	short-term (single instance)
Chloroform	PNEC	0,56 mg/kg	soil	short-term (single instance)

Exposure controls

Individual protection measures (personal protective equipment)

Eye protection

Use eye protection (Chemical splash goggles).

Hand protection

Wear chemical resistant gloves.

Inhalation protection

In case of vapor or aerosol.

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Environmental exposure controls

Keep away from drains, surface and ground water.

09. Physical and chemical properties

Appearance

Physical state: Glass vial with liquid
Colour: blue-green solution
Odour: no data available
Odour threshold: no data available

Other physical and chemical parameters

pH (value): neutral
Melting point/freezing point: no data available
Initial boiling point and boiling range: (1013 hPa) ca. 100°C
Flash point: no data available
Evaporation rate: no data available
Flammability (gas, solid): no data available
Explosive limits: no data available
Vapour pressure: no data available
Vapour density: no data available
Density: (20°C) 1,0 g/ml
Solubility: Soluble in water
Partition coefficient: no data available
n-octanol/water
Auto-ignition temperature: no data available
Decomposition temperature: no data available
Viscosity: no data available
Explosive properties: no
Oxidizing properties: no

10. Stability and reactivity

Reactivity

SonoCheck is not reactive under normal ambient conditions.

Chemical stability

No decomposition if stored and handled as intended.

Possibility of hazardous reactions

No data

Conditions to avoid

Keep away from light

Do not freeze

Incompatible materials

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Hazardous decomposition products

Hazardous combustion products: see section 5.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Bromthymol blue:

No data

Chloroform:

Name of agent	Endpoint	Value	Species	Source
Chloroform	LD50	908 mg/kg	rat	ECHA

Skin corrosion/irritation

No data

Serious eye damage/eye irritation

Irritant effect

Respiratory or skin sensitisation

No data

Summary of evaluation of the CMR properties:

Carcinogenicity:

No data

Reproductive toxicity:

No data

Specific target organ toxicity - single exposure

No data

Specific target organ toxicity - repeated exposure

No data

Aspiration hazard

No data

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

Irritation of the mouth, throat, esophagus and gastrointestinal tract

If in eyes

Irritation of the eyes

If inhaled

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If on skin

Irritation of the skin

Other information

No

12. Ecological information

Bromthymol blue:

No data

Chloroform:

Toxicity

acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)

Name of agent	Endpoint	Value	Species	Source	Exposure time
Chloroform	EC50	152,5 mg/l	aquatic invertebrates	ECHA	48 h
Chloroform	ErC50	13,3 mg/l	algae	ECHA	72 h

Aquatic toxicity (chronic)

Name of agent	Endpoint	Value	Species	Source	Exposure time
Chloroform	EC50	0,48 mg/l	microorganisms	ECHA	24 h
Chloroform	NOEC	13 mg/l	aquatic invertebrates	ECHA	21 d

Process of degradability

Name of agent	Process	Degradation rate	Time
Chloroform	biotic/abiotic	0%	14 d
Chloroform	Not readily biodegradable. Theoretical Oxygen Demand: 0,134 mg/mg Theoretical Carbon Dioxide: 0,3686 mg/mg Biochemical Oxygen Demand: 20 mg/g at 5 d		

Bioaccumulative potential

Does not significantly accumulate in organisms.
n-octanol/water (log KOW) 1,97 (25 °C) (Experimental data)

Mobility in soil

Henry's law constant 14.084 Pa m³/mol
The Organic Carbon normalised adsorption coefficient 1,939 - 2,565

Results of PBT and vPvB assessment

Data are not available.

Other adverse effects

Hazardous to water.

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13. Disposal considerations

Product

The disposal is regionally differently regulated, therefore the kind of disposal is to be inquired at the responsible authorities.

Additional information

Disposal of this product should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Contaminated packaging

Disposal according to official regulations.

Uncontaminated packaging

Disposal according to official regulations.

14. Transport information

UN number

Void

UN proper shipping name

Void

Transport hazard class(es)

Void

Packing group

Void

Environmental hazards

No

Special precautions for user

No

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

Not applicable

15. Regulatory information

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

Material safety evaluation

A material safety evaluation has not been carried out.

Regulation on combustible liquids

Class according 2009/104/EG (BetrSichV):

No

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Water hazard class

Water hazard class 1 (Self-assessment): slightly hazardous for water

Storage according TRGS 510 (Storage of hazardous substances in nonstationary containers)

Storage classes 10 to 13

16. Other information

Recommended application

For commercial purposes only.
Take notice of label / instruction for use.

Relevant R-, H- and EUH-phrases

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H351 Suspected of causing cancer.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe gas/mist/vapours/spray. P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P302+P352 IF ON SKIN: Wash with plenty of water/....

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P308+P313 IF exposed or concerned: Get medical advice/attention.

Disclaimer

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.

Key literature references and sources for data

Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
Regulation (EC) No. 1272/2008 (CLP, EU GHS)

Changes to the previous version

Section 2: new regulation

Section 3: Classification updated and supplemented

Sections 8, 11, 12: information supplemented

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Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Comission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
DNEL	Derived No-Effect Level
index No	the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	indicative occupational exposure limit value
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
PNEC	Predicted No-Effect Concentration
ppm	parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
ECHA	European Chemicals Agency