

SIKA Dr. Siebert & Kühn
GmbH & Co. KG
Struthweg 7-9
34260 Kaufungen

Product safety data sheet
compliant with ordinance (EC) no. 1907 / 2006



Trade name: Thermometer with mercury filling

Written on:

Version: 1.2

Revision / Issue date: 04/23/2014

Section 01: Designation of the product and the company

Product identifier

Thermometer with mercury filling

Use of the substance / the preparation / the product

Thermometer for commercial use

Manufacturer / supplier

SIKA Dr. Siebert & Kühn GmbH & Co. KG
Struthweg 7-9
34260 Kaufungen

Contact point for technical information

Area: Technical advice

Availability: Mo. – Fr. 08 am – 4.15 pm

Tel.: +49 (0)5605 803 -0 Fax.: +49 (0)5605 803 - 54

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Emergency information

Poison information Berlin

Beratungsstelle für Vergiftungserscheinungen und Embryonaltoxikologie

Spandauer Damm 130, D-14050 Berlin

Telephone +49 (0)30 - 19 240 in case of emergency or +49 (0) 30 - 30 68 67 11 for general questions

Section 02: Potential dangers

Classification

This is a product.

Labelling elements

None

Other hazards for humans and the environment

None -- when the product is handled properly and as intended.
(Text of the H, and EUH-sets: see Section 16)

Section 03: Composition/Information on ingredients

Chemical characterisation

The product consists of a sealed glass body and a liquid display medium located in the interior of the glass body.

Additional information:

The component parts of the fluid display medium stated under "ingredients" are permanently "encapsulated" which prevents emissions or migrations in such a manner that there is no danger from these ingredients.

Ingredients of the display medium

Mercury 100%

CAS number: 7439-97-6

EU number: 231-106-7

Hazard instructions on the main component of mercury:

H330 Fatal if inhaled.

H360D May damage the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects

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Safety instructions of the main component mercury:

P201 Obtain special instructions before use
P273 Avoid release to the environment.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.

Section 04: First-aid measures

In case of inhalation or ingestion

In case of skin contact

During proper use as intended, comply only with normal industrial hygiene.

In case of contact with eyes

Information for the physician

Section 05: Measures for fire fighting

Suitable extinguishing medium

Foam, solid extinguishing agent, carbon dioxide or water-spray jet. Match extinguishing agent to the environment.

Unsuitable extinguishing medium

High-pressure water spray

Specific risks caused by the product itself, its combustion products or resulting gases

In case of fire there is a danger of the product bursting and development of dangerous fire effluents or vapours is possible.

Special protective equipment for fire fighting

Wear suitable protective clothing. Do not inhale fumes; smoke may contain toxic mercury or mercury oxide. Stay in the danger zone only with self-contained breathing apparatus.

Additional information

Cool endangered products with water-spray jet; dispose of fire residues and contaminated water for firefighting according to official local regulations. In case of fire, released mercury vapours and mercury oxides are toxic.

Section 06: Accidental release measures

Personal precautions

Wear protective gear and keep unprotected persons away. Ensure sufficient ventilation. Be careful when picking up glass splinters - risk of injury! Avoid contact with skin. Do not inhale vapours. Keep ignition sources at a distance. For protection against vapours, cleaning personnel must wear protective clothing and respiratory protection.

Environmental measures

Do not empty into drains, rivers, water or soil. If it gets into the sewer system, rivers or waters, inform the appropriate authorities.

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Procedures for cleaning/absorption

Pick up glass splinters mechanically, absorb display medium with liquid-binding material and collect in appropriate container. Ensure sufficient ventilation.

Additional information

See Sections 8 and 13

Section 07: Handling and storage

Instructions on safe handling

Do not bump/push or throw the product or the packaging. Follow the generally acknowledged rules on the cautious handling of glass tubes and the rules of occupational safety, health and environmental protection.

Precautions against fire and explosion

Follow the general rules of the fire protection.

Additional information

Follow the generally acknowledged measures for industrial hygiene.

Information on storage conditions

Keep the product and packaging dry and tightly closed.

Information on storage with other products: Comply with the regulations / technical rules for the storage of dangerous substances in transportable containers.

Storage class: 6.1B (TRGS 510, storage of hazardous substances in transportable containers)

Section 08: Limitation and monitoring of exposure / personal protective equipment

Limits for the exposure at the workplace and / or biological limit values

Occupational Exposure Limits (Oels) Germany

For further processing of the product depending on the specific workplace activities, the pertinent fine-dust limits or occupational exposure limits are to be complied with; extraction equipment is to be provided for this purpose if necessary.

Limitation and monitoring of exposure

Ensure good ventilation. This can be achieved by local exhaust ventilation or general exhaust air.

Personal protective equipment

Select the version of the personal protective equipment based on the specific workplace activities.

Respiratory protection

Normally not necessary. Respiratory protection when there is a danger of bursting through a subsequent operation.

Hand protection

Normally not necessary. Protective gloves when there is a danger of bursting through a subsequent operation.

Eye protection

Normally not necessary. Wear protective glasses when there is a danger of bursting through a subsequent operation.

Information on occupational hygiene

Follow the generally acknowledged measures for industrial hygiene.

Limitation and monitoring of environmental exposure

At present, there is no information on this subject.

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Section 09: Physical and chemical properties

Appearance

Form: Glass body with display medium
Colour: Silvery white
Odour: Odourless

Safety-related data of the display medium enclosed in the glass body

Explosion hazard: The liquid display medium is not explosive
Water solubility: Insoluble
Boiling point/range: 356°C
Flash point: -----

Oxidising properties: None

Further information

Temperature display range of the thermometer: +300°C to +650°C

Section 10: Stability and reactivity

Conditions to avoid

Strong heat development that exceeds the temperature display range.

Materials to avoid

When used for its intended purpose no hazardous reactions are to be expected.

Hazardous decomposition products

No known decomposition with proper storage, handling, transport and use.

Further information

No hazardous reactions have been observed.

Section 11: Toxicological Information

Toxicological tests

This is a product. The product has not been tested.

Experience from practice

In case of normal handling and use, based on our experiences and information the product does not cause any harmful effects.

Section 12: Environmentally related information

Toxicity

This is a product. In case of normal handling and use, based on our experiences and information the product does not cause any environmental impacts.

Persistence and degradability

The product is not biodegradable in this form.

Bioaccumulation potential

No indication of bioaccumulation potential with proper use

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Mobility in the soil

There is no information available.

Results of the investigation of the PBT and vPvB assessment

There is no information available.

Other adverse effects, or ecological information

None with proper use or handling. There is no information available.

Section 13: Information about disposing

Waste treatment methods

Product and packaging in accordance with local and national regulations.

If mercury must be disposed of as hazardous waste, it must be done in an approved plant or in accordance with the instructions of the local competent authorities.

Assign a waste code according to the European Waste Catalogue (German abbreviation: AVV) in agreement with the regional waste management provider.

Appropriate measures for risk management must exist in order to prevent a release of mercury into the environment.

Section 14: Transport Information

Note:

The mercury filled glass thermometer is a (permanently sealed) product.

UN number

UN3506 *Mercury contained in manufactured articles*

Special Provision 366

Manufactured instruments and articles containing less than 1 kg of mercury are not subject to the requirements of the ADR/RID.

Proper shipping name

Mercury filled glass thermometer *Mercury (Hg) in manufactured article*

Transport hazard class

Class 8, C9 Corrosive substances, liquid
Hazard label 8+6.1

Packaging group

III Code: CT3 Objects

Special packing provision

P003 and PP90

Environmental hazards

Environmentally hazardous substance, liquid; Marine pollutant; Symbol: Fish and tree

Special precautions to be taken by the user

Information in sections 4 to 8. Unless otherwise specified, comply with the general measures for the implementation of safe transport.

Bulk Transport in accordance with Annex II to the MARPOL 73/78 Convention and in accordance with IBC Code

No information

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Additional information

ADR/RID and GGVS/GGVE

Limited quantities: 5 kg
Transport category: 3
Tunnel restriction code: E

IATA GDR/ICAO

Limited quantities Passenger: Forbidden

IATA-maximum amount - Passenger / Cargo: nolimit
IATA Packing Instruction - Cargo: 869

Section 15: Legal regulations

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

VOC For indoor use
AGW -----

Water hazard classification: Applies to the sealed main component mercury: WHC 3
(Strong water pollutant)

Special note When handling the product, comply with the national rules on industrial safety and health protection as well as environmental protection.

Chemical safety assessment

At present, there is no information on this subject.

Section 16: Other data

This information is based on the product as delivered.
Comply with official / trade association / occupational health regulations.

Relevant statements

These statements apply only to the sealed main component mercury:

- H330 Fatal if inhaled.
- H360D May damage the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
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Abbreviations

ADN: European Agreement concerning the Carriage of Dangerous Goods by Inland Waterways

RID: Stipulation on the international carriage of dangerous goods.

GGVSEB (hazardous-goods directive): Regulation on the national and international transport of dangerous goods by road, by rail and inland waterways

GGVSEE (Hazardous Goods Transportation Regulations for Sea): Regulation on the transport of dangerous goods by sea-going vessels

IATA DGR: International Air Transport Association Dangerous Goods Regulations

ICAO TI: Technical Instructions

Other instructions

The information provided here is intended to describe the product regarding the necessary safety precautions. The above information is correct to the best of our knowledge and does not constitute a warranty of properties. No liability will be accepted.
Existing laws and legislation are responsibility of the recipient of our products.