

Safety data sheet according SS 586 : Part 3

Date of issue: 21.02.2025

Version number 1

Revision: 21.02.2025

1 Identification

Product identifier

Trade name: Typ 1055 - Kalibrieröl Hochtemperatur / High-temperature calibration fluid Typ 1057 - Kalibrieröl Raumtemperatur / Room-temperature calibration fluid

Other means of identification

Article number: 18000008

Relevant identified uses of the substance or mixture and uses advised against Heat transfer medium

Product category PC24 Lubricants, greases, release products

Application of the substance / the mixture Heat transfer medium

Details of the supplier of the safety data sheet**Manufacturer/Supplier:**

Kistler Instrumente AG
Eulachstrasse 22
8408 Winterthur, Schweiz

Further information obtainable from:

+41 52 224 11 11,
info@kistler.com, www.kistler.com

Emergency telephone number: Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

2 Hazards identification

Classification of the substance or mixture

The product is not classified, according to the Globally Harmonised System (GHS).

Label elements

GHS label elements Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

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

PBT: Not applicable.

vPvB: Not applicable.

* 3 Composition/information on ingredients

Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 68918-33-2 Siloxanes and silicones, dimethyl, polymers with zirconium octanoate	1-5%
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Additional information: For the wording of the listed hazard phrases refer to section 16.

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Raumtemperatur / Room-temperature calibration fluid

(Contd. of page 1)

4 First-aid measures

Description of first aid measures**General information:** No special measures required.**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:**

Irritation. Repeated contact can lead to brittle or cracked skin.

If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water.**After swallowing:**

If symptoms persist consult doctor.

Do not induce vomiting! Rinse mouth and drink plenty of water.

Most important symptoms and effects, both acute and delayed May cause drowsiness and dizziness**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

Extinguishing media**Suitable extinguishing agents:**CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**Special hazards arising from the substance or mixture** No further relevant information available.**Advice for firefighters****Protective equipment:**

Use self-contained breathing apparatus. Wear protective clothing to prevent eye or skin contact.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required.**Environmental precautions:** No special measures required.**Methods and material for containment and cleaning up:** Absorb liquid components with liquid-binding material.**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.

7 Handling and storage

Precautions for safe handling No special measures required.**Information about fire - and explosion protection:** No special measures required.**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Store in a cool and well-ventilated place. Keep away from sources of ignition. Keep away from direct sunlight. Ensure that lighting and electrical equipment are not sources of ignition.

Information about storage in one common storage facility: Store away from oxidising agents.**Further information about storage conditions:**

None.

Store under lock and key and with access restricted to technical experts or their assistants only.

(Contd. on page 3)

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(Contd. of page 2)

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

8 Exposure controls/personal protection

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.

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

Exposure controls

Appropriate engineering controls No further data; see section 7.

Personal protective equipment:

General protective and hygienic measures:

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

Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:

Fluorocarbon rubber (Viton)

Butyl rubber, BR

Nitrile rubber, NBR

Eye protection: Goggles recommended during refilling

Body protection: Protective work clothing

* 9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Physical state

Liquid

Colour:

clear-brownish

Odour:

Light

pH-value:

Not applicable.

Initial boiling point and boiling range:

>35 °C

Flash point:

>101.1 °C

Evaporation rate

Not determined.

Flammability

Not applicable.

Vapour pressure:

Not determined.

Vapour pressure:

Vapour density

Not determined.

Density at 20 °C:

0.95 g/cm³

Solubility in / Miscibility with

water:

Not miscible or difficult to mix.

Partition coefficient: n-octanol/water:

Not determined.

(Contd. on page 4)

—SG—

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(Contd. of page 3)

Decomposition temperature:	Not determined.
Viscosity:	
Kinematic at 20 °C:	10 mm ² /s
Particle characteristics	Not applicable.
Other information	
Appearance:	
Form:	Fluid
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	In general, product does not present an explosion hazard.

10 Stability and reactivity

Reactivity Extremely flammable aerosol. Pressurised container: May burst if heated.

Chemical stability The product is stable under normal conditions.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid

Avoid contact with hot surfaces. Heat. No naked flames, no sparks. Remove all sources of ignition.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification:

CAS: 68918-33-2 Siloxanes and silicones, dimethyl, polymers with zirconium octanoate

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) No CMR effects known.

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

(Contd. on page 5)

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(Contd. of page 4)

Other adverse effects**Other information:** Do not discharge into drains, surface waters or groundwater.**Additional ecological information:****General notes:** Not hazardous for water.

13 Disposal considerations

Waste treatment methods**Recommendation**

Must be specially treated adhering to official regulations.

Smaller quantities can be disposed of with household waste.

Waste disposal key: 16 05 04 - Gases in pressurised containers containing dangerous substances (including halons)**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.

14 Transport information

UN-Number ADR, IMDG, IATA	Void
UN proper shipping name ADR, ADN, IMDG, IATA	None. Void
Transport hazard class(es) ADR, ADN, IMDG, IATA Class	Void
Packing group ADR, IMDG, IATA	Void
Environmental hazards: Marine pollutant:	No
Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the specifications above.
Special precautions for user	Not applicable.
UN "Model Regulation":	Void

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture**GHS label elements** Void**Hazard pictograms** Void**Signal word** Void**Hazard statements** Void**Directive 2012/18/EU****Named dangerous substances - ANNEX I** None of the ingredients is listed.

(Contd. on page 6)

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(Contd. of page 5)

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information corresponds to the current state of knowledge. Kistler reserves the right to make technical changes. Liability for consequential damage resulting from the use of Kistler products is excluded.

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Phone +41 52 224 11 11, Fax +41 52 224 14 14, info@kistler.com, www.kistler.com

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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.

Abbreviations and acronyms:

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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