

## Safety Data Sheet

acc. to OSHA HCS

Printing date 03/06/2025

Reviewed on 03/06/2025

### 1 Identification

**Product identifier****Trade name:** Type 1069A - Kalibrieröl für 6959A / Calibration fluid for 6959A**Article number:** 18043657**Application of the substance / the mixture** Hydraulic fluid**Details of the supplier of the safety data sheet****Manufacturer/Supplier:**Kistler Instrumente AG  
Eulachstrasse 22  
8408 Winterthur, Schweiz**Information department:**+41 52 224 11 11,  
info@kistler.com, www.kistler.com**Emergency telephone number:** +49 (0)6132-84463 (24 h; GBK GmbH)

### 2 Hazard(s) identification

**Classification of the substance or mixture**

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

**Label elements****GHS label elements** Void**Hazard pictograms** Void**Signal word** Void**Hazard statements** Void**Classification system:****NFPA ratings (scale 0 - 4)****HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

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

### \* 3 Composition/information on ingredients

**Chemical characterization: Mixtures****Description:**

Highly refined mineral oils and additives.

According to IP 346, the highly refined mineral oil contains a

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dimethyl sulphoxide (DMSO) extractable content of less than than 3 % (w/w).

Classification based on a DMSO extract content of < 3 % (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L).

\* Includes one or more of the following CAS numbers (REACH registration numbers): 64742-53-6 (01-2119480375-34), 64742-54-7 (01-2119484627-25), 64742-55-8 (01-2119487077-29), 64742-56-9 (01-2119480132-48), 64742-65-0 (01-2119471299-27), 68037-01-4 (01-2119486452-34), 72623-86-0 (01-2119474878-16), 72623-87-1 (01-2119474889-13), 8042-47-5 (01-2119487078-27), 848301-69-9 (01-0000020163-82), 68649-12-7 (01-2119527646-33), 151006-60-9 (01-2119523580-47), 163149-28-8 (01-2119543695-30), 64741-88-4 (01-2119488706-23), 64741-89-5 (01-2119487067-30).

**Dangerous components:**

Comparable low viscosity base oils (<20.5 mm<sup>2</sup>/s at 40 °C)

0-90%

## 4 First-aid measures

**Description of first aid measures**

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

**After skin contact:** If skin irritation continues, consult a doctor.

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

**After swallowing:**

If symptoms persist consult doctor.

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

**Information for doctor:**

**Most important symptoms and effects, both acute and delayed** No further relevant information available.

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## 5 Fire-fighting measures

**Extinguishing media****Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing 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:** No special measures required.

## 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Not required.

**Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

**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.

Ensure adequate ventilation.

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**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.

**Protective Action Criteria for Chemicals**

<b>PAC-1:</b>
None of the ingredients is listed.
<b>PAC-2:</b>
None of the ingredients is listed.
<b>PAC-3:</b>
None of the ingredients is listed.

**7 Handling and storage**

**Handling:**  
**Precautions for safe handling**  
 Ensure good ventilation/exhaustion at the workplace.  
 Open and handle receptacle with care.  
**Information about protection against explosions and fires:** Keep respiratory protective device available.  
**Conditions for safe storage, including any incompatibilities**  
**Storage:**  
**Requirements to be met by storerooms and receptacles:** No special requirements.  
**Information about storage in one common storage facility:** Not required.  
**Further information about storage conditions:** Keep receptacle tightly sealed.  
**Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

**Additional information about design of technical systems:** No further data; see section 7.  
**Control parameters**  
**Components 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.

<b>Additional Occupational Exposure Limit Values for possible hazards during processing:</b>	
<b>Mineral oil mist</b>	
PEL	Long-term value: 5 mg/m³
REL	Short-term value: 10 mg/m³
	Long-term value: 5 mg/m³
	oil mist
TLV	L

**Additional information:** The lists that were valid during the creation were used as basis.  
**Exposure controls**  
**Personal protective equipment:**  
**General protective and hygienic measures:**  
 The usual precautionary measures for handling chemicals should be followed.  
**Breathing equipment:** Not required.  
**Protection of hands:**  
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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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 in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**

Butyl rubber, BR

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

Neoprene gloves

PVC gloves

Nitrile rubber, NBR

**Not suitable are gloves made of the following materials:** PVC gloves

**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**

**Appearance:**

**Form:** Liquid

**Color:** Clear

**Odor:** Characteristic

**Odor threshold:** Not determined.

**pH-value at 20 °C (68 °F):** ~7

**Change in condition**

**Melting point/Melting range:** -33 °C (-27.4 °F)

**Boiling point/Boiling range:** >280 °C (>536 °F)

**Flash point:** 200 °C (392 °F)

**Flammability:** Not applicable.

**Auto igniting:** >320 °C (>608 °F)

**Decomposition temperature:** Not determined.

**Ignition temperature:** Product is not selfigniting.

**Danger of explosion:** Product does not present an explosion hazard.

**Explosion limits:**

**Lower:** 1 Vol %

**Upper:** 10 Vol %

**Vapor pressure:** Not determined.

**Density at 20 °C (68 °F):** 0.85 g/cm<sup>3</sup> (7.09325 lbs/gal)

**Relative density** Not determined.

**Vapor density** Not determined.

**Evaporation rate** Not determined.

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<b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic at 20 °C (68 °F):</b>	22 mm²/s
<b>Solvent content:</b>	
<b>VOC content:</b>	0.0 g/l / 0.00 lb/gal
<b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

**Reactivity** No further relevant information available.**Chemical stability****Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**Possibility of hazardous reactions** No dangerous reactions known.**Conditions to avoid** No further relevant information available.**Incompatible materials:** No further relevant information available.**Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

**Information on toxicological effects****Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

**Carcinogenic categories****IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

**NTP (National Toxicology Program)**

None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

**Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Ecotoxicological effects:****Other information:** Do not discharge into drains, surface waters or groundwater.**Additional ecological information:****General notes:**

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

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

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

14 Transport information

UN-Number DOT, ADR, IMDG, IATA	Void
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Void
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class	Void
Packing group DOT, ADR, IMDG, IATA	Void
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	Void

15 Regulatory information

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

No further relevant information available.

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Section 355 (extremely hazardous substances):

None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

N,N-bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine

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<b>Hazardous Air Pollutants</b>
None of the ingredients is listed.
<b>Proposition 65</b>
<b>Chemicals known to cause cancer:</b>
None of the ingredients is listed.
<b>Chemicals known to cause reproductive toxicity for females:</b>
None of the ingredients is listed.
<b>Chemicals known to cause reproductive toxicity for males:</b>
None of the ingredients is listed.
<b>Chemicals known to cause developmental toxicity:</b>
None of the ingredients is listed.
<b>Carcinogenicity categories</b>
<b>EPA (Environmental Protection Agency)</b>
None of the ingredients is listed.
<b>TLV (Threshold Limit Value)</b>
None of the ingredients is listed.
<b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
None of the ingredients is listed.
<b>GHS label elements</b> Void
<b>Hazard pictograms</b> Void
<b>Signal word</b> Void
<b>Hazard statements</b> Void
<b>Chemical safety assessment:</b> 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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### Contact:

**Date of preparation / last revision** 03/06/2025 / -

### 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  
 DOT: US Department of Transportation  
 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)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 VOC: Volatile Organic Compounds (USA, EU)  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 NIOSH: National Institute for Occupational Safety  
 OSHA: Occupational Safety & Health  
 TLV: Threshold Limit Value  
 PEL: Permissible Exposure Limit  
 REL: Recommended Exposure Limit

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