Material Safety Data Sheet

According to Regulation (EC) No. 1907/2006
Version 4.0, Revision Date: 22.08.2024

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: ibidi Anti-Evaporation Oil
Product number: 50051
REACH No.: A registration number is not available for this mixture as the mixture or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: For research use only

1.3 Details of the supplier of the material safety data sheet

Company: ibidi GmbH
Lochhamer Schlag 11
82166 Gräfelfing
Germany
Telephone: +49-89-5204617-0
Fax: +49-89-5204617-59
E-mail address: msds@ibidi.de

1.4 Emergency telephone number

Emergency Phone: +49-89-5204617-0
(Business hours from Monday till Friday between 8 am and 5 pm (UTC+1h))

2 HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.3 Other hazards

No data available.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical characterization
Polysiloxane

Hazardous ingredients
This material does not contain any reportable hazardous ingredients.

4 FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If necessary seek medical advice.

In case of skin contact
In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. In case of skin reactions, consult a physician.

In case of eye contact
Remove contact lenses. Immediately flush eyes with plenty of flowing water for at least 20 minutes, also under the eyelids. If necessary seek medical advice.

If swallowed
Do NOT induce vomiting unless directed to do so by medical personal. Never give anything by mouth to an unconscious person. Rinse mouth with water. If malaise develops, call a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed
no data available

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Water mist, extinguishing powder, alcohol-resistant foam, carbon dioxide, sand, sprinkler system

Extinguishing media which must not be used for safety reasons
Water jet

5.2 Special hazards arising from the substance or mixture
Risk of hazardous gasses of fumes in the event of fire. Exposure to combustion products may be a health hazard. Hazardous combustion products: toxic and very toxic fumes.

5.3 Advice for firefighters

Special protective equipment for fire fighting
Use respiratory protection independent of recirculated air. Keep unprotected persons away.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.
If material is released indicate risk of slipping. Do not walk through spilled material.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Prevent product from entering surface water, drains or sewers and soil.

6.3 Methods and material for containment and cleaning up

Absorb with a neutral (non-acid / non-basic) liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Clean any slippery coating that remains using a detergent/soap solution or another biodegradable cleaner.

6.4 Reference to other sections

For disposal see section 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Use personal protective equipment. Avoid formation of aerosols. Spilled substance increases risk of slipping.

7.2 Conditions for safe storage, including incompatibilities

Keep in properly labeled containers.
Keep container tightly closed. Store in a dry and cool place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering control

Handle in accordance with good laboratory hygiene and safety practice.

Personal protective equipment

Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with the product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practice. Wash and dry hands.
Recommendation: Protective gloves made of butyl rubber of nitrile rubber.

Body protection

Wear lightweight protective clothing.

Respiratory protection

No special protective equipment required.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid Colour: colourless
b)	Odor	odorless
c)	Odor Threshold	not available

d)	pH	Not applicable. Insoluble in water
e)	Melting point/melting range	approx. -38 °C
f)	Boiling point/boiling range	not applicable
g)	Flash point	> 285 °C (ISO 2592)
h)	Ignition temperature	390 °C (DIN 51794)
i)	Thermal decomposition	> 350°C
j)	Lower explosion limit (LEL)	not applicable
k)	Upper explosion limit (UEL)	not applicable
l)	Vapor pressure	not determined
m)	Density	1.04 g/cm³ at 25 °C, at 1013 hPa (DIN 51757)
n)	Water solubility/miscibility	virtually insoluble at 20 °C
o)	Solubility in organic solvent	totally miscible with common organic solvents
p)	Viscosity (dynamic)	190 – 210 mPa*s at 25 °C (DIN 51562)
q)	Viscosity (kinematic)	approx. 200 mm²/s at 25 °C (DIN 51562)

9.2 Other information

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10 STABILITY AND REACTIVITY

10.1 Reactivity

Product is stable under normal storage conditions and if used according to specifications.

10.2 Chemical stability

Product is stable under normal storage conditions and if used according to specifications.

10.3 Possibility of hazardous reactions

No dangerous reactions known under conditions of normal use, handling and storage.

10.4 Conditions to avoid

none known

10.5 Incompatible materials

none known

10.6 Hazardous decomposition products

If stored and handled properly: none known. Measurements have shown the formation of small amounts of benzene at temperatures above about 180°C. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150°C through oxidation.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
Product details:

Route of exposure	Results/Effects	Species/Test system	Source
oral	LD_{50}: > 2000 mg/kg	rat	Conclusion by analogy
dermal	LD_{50}: > 2000 mg/kg	rat	Conclusion by analogy

Skin corrosion/irritation
Product details:

Results/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy
Product displays good compatibility with the skin.	Human skin patch test; Voluntary persons, 24 h	

Serious eye damage/eye irritation
Product details:

Results/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy

Respiratory or skin sensitization
Product details:

Route of exposure	Results/Effects	Species/Test system	Source
dermal	not sensitizing	Guinea-pig; Magnusson-Kligman	Conclusion by analogy OECD 406

Germ cell mutagenicity
Product details:

Results/Effect	Species/Test system	Source
negative	mutation assay (in vitro) bacterial cells	Conclusion by analogy OECD 471

Carcinogenicity
Assessment:
For this endpoint no toxicological test data is available for the whole product.

Reproductive toxicity
Assessment:
For this endpoint no toxicological test data is available for the whole product.

Specific target organ toxicity – single exposure
Assessment:
For this endpoint no toxicological test data is available for the whole product.

Specific target organ toxicity – repeated exposure
Assessment:
For this endpoint no toxicological test data is available for the whole product.

Aspiration hazard
Assessment:
In case an aspiration hazard is based on ingredients, this can be seen from the classification and labeling of the whole product.

12 ECOLOGICAL INFORMATION

12.1 Toxicity
Assessment:
Evaluation on basis of physical-chemical properties: No expected damaging effects to aquatic organisms.

Result/Effect	Species/Test system	Source
LL50: > 1000 mg/l (nominal) The effect level is greater than the maximum achievable concentration. The value refers to the wateraccommodated fraction (WAF).	static test Fish (96 h)	literature (Polydimethylsiloxane)
EC50: > 0,0001 mg/l (measured) The effect level is greater than the maximum achievable concentration. The value refers to the wateraccommodated fraction (WAF).	static test Daphnia magna (Water flea) (48 h)	literature (Polydimethylsiloxane)
IC50 (Growth rate): > 100000 mg/l (nominal) The effect level is greater than the maximum achievable concentration. The value refers to the wateraccommodated fraction (WAF).	static test Skeletonema costatum (marine diatom) (72 h)	literature (Polydimethylsiloxane)
NOEC: > 10000 mg/kg	feeding study Oncorhynchus mykiss (rainbow trout) (28 d)	literature (Polydimethylsiloxane)
NOEC (mortality): > 500 mg/kg The exposure to treated sediment did not result in effects.	exposure via sediment Daphnia magna (Water flea) (21 d)	literature (Polydimethylsiloxane)
NOEC (Growth): > 500 mg/kg The exposure to treated sediment did not result in effects.	exposure via sediment Daphnia magna (Water flea) (21 d)	literature (Polydimethylsiloxane)
NOEC (reproduction rate): > 500 mg/kg The exposure to treated sediment did not result in effects.	exposure via sediment Daphnia magna (Water flea) (21 d)	literature (Polydimethylsiloxane)

12.2 Persistence and degradability
Assessment:
Silicone content: biologically not degradable. Elimination by adsorption to activated sludge.

12.3 Bioaccumulative potential
Assessment:
Polymer component: No adverse effects expected.

12.4 Mobility in soil
Assessment:
Polymer component: insoluble in water.

12.5 Results of PBT and vPvB assessment
No data available.

12.6 Other adverse effects
None known

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14 TRANSPORT INFORMATION

14.1 UN number
ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name
ADR/RID: Not dangerous good
IMDG: Not dangerous good
IATA: Not dangerous good

14.3 Transport hazard class(es)
ADR/RID: - IMDG: - IATA: -

14.4 Packing group
ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user
no data available

14.7 Transport in bulk according to Annex of MARPOL73/78 and the IBC Code
no data available

15 REGULATORY INFORMATION

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

EU regulation
This material safety datasheet complies with the requirements of Regulation (EC) No 1907/2006.

U.S. Federal Regulations
TSCA inventory: This product is being sent to you as a Research and Development product as defined by the Toxic Substances Act (TSCA) of 1976. Due to TSCA's R&D exemption, this product is not listed on the U.S. EPA's Toxic Substances Control Act (TSCA's) inventory. As a TSCA exempt R&D substance, this product must be used by or directly under the supervision of a technically qualified individual(s) as defined by TSCA. This product must not be used for commercial purposes or in formulations used for commercial purposes.

15.2 Chemical safety assessment
For this product a chemical safety assessment was not carried out.

16 OTHER INFORMATION

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Code for Dangerous Goods
IATA	International Air Transport Association
PBT	persistent, bioaccumulative, toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
vPvB	Very persistent, very bioaccumulative

Further Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as guide. All materials and mixtures may present unknown hazards and should be used with caution. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.