Safety data sheet

according to REACh Regulation 1907/2006/EC

1. Identification of the mixture and of the company

1.1 Product identifier

Article description: Test ink and test pens 28 – 72 mN/m, chemical preparation

REACh registration number

A registration number is not available for this mixture as its ingredients or its use are exempted from registration under Article 2 of the REACh Regulation (EC) No 1907/2006, the annual tonnage does not require registration or the registration is envisaged for a later date.

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

1.2.1. Relevant identified uses

Solvent mixture for application to a solid surface for the purpose of measuring the surface energy. No further applications envisaged.

1.2.2 Uses advised against

None known

1.3. Details of the supplier of the safety data sheet

SEST Messtechnik - Johannes Seemann, Gässle 13, 79588 Efringen-Kirchen, Germany
Email: info@sest-messtechnik.de
Telephone: +49 (0)7628 / 7164900 (working days from 08:30 to 17:00)

1.4 Emergency telephone number

CHEMTREC: +44 (0)870 8200418
Freiburg Poison Centre: +49 (0)761 19240
Mainz Poison Information Centre, (24/7 in German and English) +49 (0)6131 19240

2. Hazards identification

2.1. Classification of the substance or mixture

Not a hazardous mixture in accordance with Regulation (EC) No 1272/2008.

2.2 Label elements

Label (REGULATION (EC) No. 1272/2008)
Pictogram - none
Signal word - none
Hazard statement(s) - none
Precautions - none

Other information

The red, blue and green ink does not contain any substances classified as hazardous or dangerous to health above the cut-off level under EU legislation. The colourless ink does not contain substances classified as hazardous or dangerous to health in accordance with EU legislation.

2.3 Other hazards

The mixture does not meet the criteria for classification as PBT or vPvB.
Other hazardous properties cannot be ruled out. The product should be handled with the caution normally used with chemicals.

3. Composition/information on ingredients

3.1 Substances

This product is a mixture.

3.2 Mixtures

	Product identifier	**Proportion**	**Classification according to Regulation (CE) No 1272/2008 (CLP)**
Mixture of solvent(s) and dissolved solid(s) containing the following functional groups: Alcohol, glycol ether, carboxyl, amide and water in different proportions depending on classification.	-	100.00%	No classification

Approx. 0.1 % dye

Does not contain any other ingredients which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and which therefore need to be mentioned in this section.

Substance with a Community workplace exposure limit:

(2-Methoxymethylethoxy)propanol, see section 8.

4. First aid measures

4.1 Description of first aid measures

General advice: Remove contaminated clothing immediately. Consult a doctor if you experience any health problems.

If inhaled: Remove the person in question to fresh air and rest in a position that facilitates breathing. Seek medical attention if symptoms occur. Symptoms may be delayed when the products of combustion are inhaled. The person may need to remain under medical supervision for 48 hours.

In case of skin contact: Remove all contaminated clothing immediately. Wash/shower skin with water.

In case of eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for contact lenses and remove if present. Consult a doctor in case of irritation. Continue flushing.

If swallowed: Immediate strong rinsing of the mouth, immediately drink water (maximum 2 glasses), consult a doctor

4.2 Most important symptoms and effects, both acute and delayed

Anaesthesia, irritant effects, dizziness, diarrhoea, headache, see section 11 for further information

4.3 Indication of any immediate medical attention and special treatment needed

If unconscious: Alert Emergency Medical Officer

Instructions for the doctor: Treat symptomatically. If large amounts have been swallowed or inhaled, contact the poison control centre specialists immediately.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: CO_2, foam, powder

Unsuitable extinguishing agents for safety reasons: Full jet water

5.2. Special hazards arising from the substance or mixture

Possible combustion products: Carbon monoxide, carbon dioxide, nitrogen oxides, acroleins
Flammable. Vapours are heavier than air and can spread along the ground. Explosive mixtures with air are possible when heated to high temperatures. In case of a fire, hazardous fire gases or vapours may be generated. In case of fire, the following may be released: Nitrogen oxides,

acrolein

5.3 Advice for firefighters

Special firefighting equipment:

In the event of fire, immediately seal off the area and evacuate all persons from the danger zone. No measures should be taken that are associated with personal risk or that have not been adequately trained for. Only remain in the danger zone with breathing apparatus that is independent of recirculation air. Clothing for firefighters (including helmets, protective boots and gloves) that complies with the European standard EN 469 provides basic protection in the event of accidents involving chemicals.

Further information

Cool the container from a safe distance using spray water. Dampen escaping vapours with water. Do not allow fire-fighting water to enter surface water or the groundwater system.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Note for non-emergency trained personnel: Avoid contact with substances. Do not breathe in steam/aerosol. Ensure adequate ventilation. Clear the danger zone, follow the emergency plan, consult experts.
Instructions for emergency services: Protective equipment: see section 8.

6.2 Environmental precautions:

Do not allow to enter sewage system

6.3 Methods and materials for containment and cleaning up

Absorb small amounts of spilled liquid (up to approx. 50 ml) with cloths or (paper) towels; absorb larger amounts with liquid-binding and neutralising material, e.g. Chemizorb® or Vermiculite®. Dispose of as waste. Rinse.
Large quantities: Remove the container from the outlet area. Avoid entry into sewers, bodies of water, cellars or closed areas. Soak or sweep up material and place in appropriately labelled waste containers. Dispose of via a recognised waste disposal company.

6.4 Reference to other sections

Note the precautions listed in sections 7, 8 and 13. Section 1 for emergency contact information. For disposal instructions, see section 13

7. Handling and storage

The information in this section provides general advice and guidance. The list of identified uses in Section 1 should be consulted for any application-specific information in the exposure scenario(s).

7.1. Precautions for safe handling

Safety precautions Notes on safe handling:
Do not inhale gas/smoke/vapour/aerosol. Wear personal protective equipment (see section 8).
Fire precautions: Keep away from source of ignition - Do not smoke.
Notes on general industrial hygiene: Do not eat, drink, smoke, sniff at work. Avoid contact with skin, eyes and clothing. Take note of the instructions on the label. Do not leave containers open.
Notes on fire and explosion precautions:
Keep away from heat, sparks and fire. Avoid contact with oxidising agents.
Notes on safe handling
Hygiene measures
Immediately change contaminated clothing. Wash your face and hands after work.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Protect from heat and direct sunlight. Store tightly sealed and dry at between +15°C and +25°C.
Store in a location with a solvent-resistant soil or on a drip tray to ensure protection of groundwater in case of spillages.

7.3 Specific end use(s)

No specific end uses other than those mentioned in section 1.2 are envisaged.

8. Exposure controls/personal protection

8.1 Control parameters

8.1.1. Workplace limits
(2-METHOXYMETHYLETHOXY)PROPANOL
Components with workplace limits that require monitoring
Ingredients

Basis	Value	Parameters to monitor	Comments
(2-Methoxymethylethoxy)propanol (34590-94-8)			Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
EU ELV	Effects on the skin		Can be absorbed through the skin
	Daily average TWA	50 ppm 308 mg/m3	
	Comments	Indicates the possibility that larger amounts of the substance are absorbed through the skin Indicative	
	AGW:	50 ppm 310 mg/m3	TRGS 900 - Occupational exposure limit values Peak limit value 1 Type of exposure: Vapour and aerosol.

8.1.2. Biological limits No data available

8.1.3. DNEL/PNEC values

Name of substance	DNEL value	(1) DNEL Type (2) Route of exposure
Dipropylene glycol monomethyl ether	308 mg/m3	(1) DNEL for employer (2) Long-term - inhalation, systemic effects
Dipropylene glycol monomethyl ether	283 mg/kg KG/ day	(1) DNEL for employer (2) Long-term - dermal, systemic effects

8.2 Exposure controls

Technical precautions

Technical measures and the use of appropriate working methods shall take precedence over the use of personal protective equipment. See section 7.

Individual precautions

The design of body protection must be selected depending on the concentration and quantity of hazardous substances at the workplace. The chemical resistance of the protection should be clarified with the suppliers.

Hygiene measures

Immediately change contaminated clothing. Preventive skin protection (skin protection cream) recommended. Wash hands and face after work.

Eye/face protection

Use safety goggles with side protection.

Hand protection

Full contact:
Glove material: Polychloroprene - Glove thickness: 0.65 mm - Breakthrough time: > 480 min
Spray contact:
Glove material: Natural latex - Glove thickness: 0.6 mm - Breakthrough time: > 120 min
The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the resulting EN374 standard.

Respiratory protection - Required when vapours/aerosols occur. Recommended filter: A(-P2)

Other protective measures - Protective clothing when handling large quantities

Environmental exposure controls -

Do not allow to enter the sewage system.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:		liquid
Colour:		red, green, blue or colourless
Odour:		unspecified,
pH at 100 g/l H_2O: (20 °C)		6-9
Melting temperature:		approx. 12 °C
Boiling temperature:		> 100 °C
Ignition temperature:		> 200 °C
Flash point:		> 80 °C
Explosion limits:		not available
Vapour pressure:	(20 °C)	approx. 20 hPa
Relative vapour density:		not available
Density:		approx. 1 g/cm^3
Solubility in water: (20 °C)		very soluble

9.2 Other information

None

10. Stability and reactivity

10.1 Reactivity

Flammable. See section 10.3.

10.2 Chemical stability

The product is chemically stable under normal ambient conditions (room temperature). Hygroscopic.

10.3 Possibility of hazardous reactions

No hazardous reactions are expected when used as intended. Explosive mixtures may be formed with air when heated to high temperatures. Violent reactions possible with: Oxidants, reducing agents, acid halides, acid anhydrides

10.4 Conditions to avoid

Intense heating

10.5 Incompatible materials

None known

10.6 Hazardous decomposition products

In case of fire: see point 5

11. Toxicological information

11.1 Information on toxicological effects

PROPERTIES TO BE EXPECTED DUE TO THE COMPONENTS OF THE PREPARATION:

Acute toxicity

LD 50 (oral, rat): > 5000 mg/kg. (No substance of unknown toxicity is present)
LD 50 (dermal, rabbit): > 3000 mg/kg. (A substance of unknown toxicity is present)

Skin corrosion/irritation

Skin – rabbit - result: No skin irritation

Severe eye damage/irritation

Eyes – rabbit - result: No eye irritation

Sensitisation

Negative; patch test (human and guinea pig, all ingredients)

Genotoxicity

Bacterial mutagenicity: negative; Ames Test/OECD471 (all ingredients)

Other toxicological information

Acute oral toxicity: Based on the available data, the classification criteria are not met.
Acute dermal toxicity: Based on the available data, the classification criteria are not met.
Acute inhalation toxicity: Based on the available data, the classification criteria are not met.
Skin corrosion/irritation: Based on the available data, the classification criteria are not met.
Severe eye damage/irritation: Based on the available data, the classification criteria are not met.
Respiratory or skin sensitisation: Based on the available data, the classification criteria are not met.
Germ cell mutagenicity: Based on the available data, the classification criteria are not met.
If inhaled: Slight irritation of the airways, lungs.
Slight irritation to: Skin, mucosa.
If large quantities are ingested: Anaesthesia, vomiting, abdominal pain, headache, dizziness, diarrhoea, cyanosis
Risk of skin absorption
Carcinogenicity - No information available.
Reproductive toxicity - No information available.
Teratogenicity - Not enough information available for all ingredients.
Specific target organ toxicity - Single exposure - No information available.
Specific target organ toxicity - Repeated exposure - No information available.
Aspiration hazard - No information available.

11.2 Further information

Hazardous properties cannot be excluded, but are unlikely if used properly. The mixture should be handled with the caution normally used with chemicals. Only for use by professionals.

12. Ecological information

PROPERTIES TO BE EXPECTED DUE TO THE COMPONENTS OF THE PREPARATION

12.1. Toxicity

Fish toxicity: LC_{50} > 5000 mg/l (for Carassius auratus, Danio rerio or Pimephales promelas)

Daphnia toxicity: EC_{50} > 800 mg/l (Daphnia Magna)

12.2 Persistence and degradability

Between 71 and 98% (OECD 301C, 301F, 302B, readily biodegradable
Adsorb. org. bound halogen (AOX): The mixture contains no organic halogens.

12.3 Bioaccumulative potential

Log P(o/w): < 0.001 (estimated from the individual components, all components have an experimentally determined log P(o/w): < 0.001). No significant bioaccumulation potential is expected (log P(o/w) < 1) (literature).

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This substance/mixture does not contain components at concentrations of 0.1 % or higher thatare classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

No data available

Other ecological information

Do not allow to enter water, sewage or soil. With proper handling and use, no ecological problems are to be expected.

13. Disposal considerations

Waste treatment methods

Product residues must be disposed of in accordance with the Waste Directive 2008/98/EC and national and regional regulations. Keep chemicals in original containers. Uncleaned containers must be treated in accordance with the product.

Please check with your waste disposal company for information on return systems for chemicals and packaging.

According to the current state of knowledge of the supplier, this product is not considered to be hazardous waste within the meaning of EU Directive 2008/98/EC.

14. Transport information

14.1-14.6 Not hazardous goods as defined in transportation regulations (ADR/RID, IATA, IMGD)

15. Regulatory information

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

EU regulations

Hazardous Incidents Ordinance 96/82/EC

Directive 96/82/EC does not apply

Substances of very high concern (REACh SVHC Candidate List)

This product does not contain any substances of very high concern according to REACh Regulation EC No 1907/2006 Art. 57 above the legal concentration of ≥ 0.1 % (w/w).

RoHS (EU) 2015/863

Not applicable, does not contain any corresponding substances above a concentration limit of ≥ 0.1 %

National regulations

Water hazard class 1 (low water hazard substances) (self-classification)
Storage class VCI 10

BG-Chemie factsheet: M050 Handling of hazardous materials

15.2 Chemical safety assessment

No chemical safety assessment has been performed for this product.

16. Other information

Training notes

Ensure users receive adequate information, instructions and training.

Other information

Procedure for deriving classification according to Regulation (EC) 1272/2008 (CLP/GHS)
Classification: Justification Not classified.
Full text of abbreviated H statements: Not applicable
Full text of classifications [CLP/GHS]: Not applicable
Only for use by professionals.
Last updated: 10.10.24

The information is based on the current state of our knowledge and is intended to to describe the product in terms of the applicable safety precautions. They do not constitute a guarantee of the properties of the product described.

This information has been compiled to the best of our knowledge, but does not claim to be exhaustive and should only be understood by the user as a guide. SEST Messtechnik does not accept any liability for damage that may occur in handling or contact with these chemicals.