

1.0– Identification of the substance/mixture and of the company/undertaking

1.1 – Product Identification

Trade name: Water-based ink HLD, HLD Pastel and HLP
Substance name: n/a
Index No: n/a
CAS-No: n/a
EC-No: n/a

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

Use of the substance/mixture: Preparation for use in writing instruments
Recommended restrictions on use: No information available

1.3 – Details of the supplier of the safety data sheet

Company : Kores Europe s.r.o.
Nivka 336, 378 53 Strmilov
Czech Republic
Contact customer service: 1190 Vienna, AUSTRIA
Telephone : +43/1/3780755
web : www.kores.com
e-mail adresse : kores@kores.at

1.4 – Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964	
United Kingdom	National Poisons Information Service (NHS Direct)	http://www.npis.org	111 (England & Wales only) or 112 (EU) or 08454 24 24 24 (Scotland)	

2.0 - Hazards 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

No labelling according to Regulation (EC) No. 1272/2008

2.3 – Other hazards

EUH208 – Contains 1,2-benzisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one for preservation during storage. May produce an allergic reaction.

The material does not meet the criteria for PBT or vPvB in accordance with Annex XIII of the REACH Regulation.

3.0 - Composition / information on ingredients

3.1 – Substances

Chemical nature: mixture

Chemical name	REACH Reg. No.	CAS No.	EC No.	Amount (%)
2,2'-oxybisethanol	01-2119457857-21-xxxx	111-46-6	203-872-2	<10%
Acid Black 24		3071-73-6	221-343-4	≤6%

Chemical name	Classification according to Regulation (EC) No. 1272/2008
2,2'-oxybisethanol	H302 (4), H373 (2)
Acid Black 24	H319 (2)

For the full text of the H-Statements mentioned in this Section, see Section 16.

4.0 - Description of first aid measures

4.1 – Description of first aid measures

General advice: Take off all contaminated clothing immediately
In case of inhalation: Remove to fresh air. If symptoms persist, seek medical advice. If unconscious place in recovery position
In case of skin contact: Wash off with plenty of water. If skin irritation persists, seek medical advice
In case of eye contact: Rinse thoroughly with plenty of water, also under the eyelids. Consult an eye specialist immediately

4.2 – Most important symptoms and effects, both acute and delayed

No information available

4.3 - Indication of immediate medical attention and special treatment needed

Treat symptomatically. No further information available

5.0 – Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, foam, dry powder or CO₂
Unsuitable extinguishing media: High volume water jet

5.2 – Special hazards arising from the substance or mixture

Specific hazards during fire-fighting: In case of fire hazardous decomposition products may be produced, such as carbon monoxide (CO) and carbon dioxide (CO₂).

5.3 - Advice for firefighter

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit)

Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Collect contaminated fire extinguishing water separately. This must not be discharged into drains

6.0– Accidental release measures

6.1 – Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Provide adequate ventilation. Keep away from heat and sources of ignition. Avoid contact with skin and eyes. Do not breathe vapours.

6.2 – Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration

6.3 – Methods and materials for containment and cleaning up

Procedure: Contain spillage, and then collect with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see Section 13)

Further information: Treat recovered material as described in Section 13

6.4 – Reference to other sections

For personal protection see Section 8

7.0 – Handling and storage

7.1 – Precautions for safe handling

Advice on safe handling: Keep container tightly closed. Avoid contact with skin and eyes. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity

Hygiene measures: Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of the working day. Take off all contaminated clothing immediately. Avoid contact with skin and eyes.

7.2 – Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Store in original container

Advice on protection against fire and explosion: n/a

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) and (EC) No. 1272/2008 (CLP)
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Further information on storage conditions: Keep tightly closed in a dry and cool place
Advice on common storage: Keep away from food, drink and animal feeding stuffs

7.3 – Specific end uses

Specific uses(s): No information available

8.0– Exposure controls/personal protection

8.1 – Control parameters

2,2'-oxybisethanol (CAS No. 111-46-6)

DNEL Workers, long-term systemic effects, inhalation: 44 mg/m³
DNEL Workers, long-term-local effects, inhalation: 60 mg/m³
DNEL Workers, long-term-systemic effects, skin contact: 43 mg/Kg bw/day
DNEL General population, long-term-systemic effects, inhalation: 12 mg/m³
DNEL General population, long-term-systemic effects, skin contact: 21 mg/Kg bw/day

2,2'-oxybisethanol (CAS No. 111-46-6)

Predicted no effect concentration (PNEC)
Fresh water: 10 mg/L
Marine water: 1 mg/L
Intermittent releases: 10 mg/L
Fresh water sediment related to, dry weight: 20.9 mg/Kg
Sewage treatment plant (STP): 199.5 mg/L
Soil related to, dry weight: 1.53 mg/Kg
Marine sediment related to, dry weight: 2.09 mg/Kg

2,2'-oxybisethanol (CAS No. 111-46-6)

Regulatory basis: UK. EH40 Workplace Exposure Limits (WELs)
Regulatory list: EH40 WEL
Value type: Time Weighted Average (TWA)
Value: 23 ppm
Value : 101 mg/m³
Regulatory basis: UK. EH40 Workplace Exposure Limits (WELs)
Regulatory list: EH40 WEL
Regulatory basis: ELV (IE)
Regulatory list: Indicative OELV
Value type: Time Weighted Average (TWA)
Value: 23 ppm
Value : 100 mg/m³

8.2 – Exposure controls

Engineering measures: Refer to protective measures listed in Sections 7 and 8
Respiratory protection : Required, if exposure limit is exceeded (e.g. OEL). Respirator with a gas filter. Recommended filter type: A-P2
Hand protection: Wear suitable gloves. Take note of the information given by the producer concerning permeability and break through times, and of

	special workplace conditions (mechanical strain, duration of contact). Protective gloves should be replaced at first signs of wear Butyl rubber, 0.5mm, Fluorocarbon rubber, 0.4mm
Eye protection:	Tight fitting safety goggles
Skin and body protection:	Wear suitable protective clothing
Environmental protection:	Do not let product enter drains. If the product contaminates rivers and lakes or drains inform respective authorities

9.0 – Physical and chemical properties

9.1 – Information on basic physical and chemical properties

Appearance:	Various colours, liquid
Odour:	Odourless
Odour threshold:	No data available
pH:	No data available
Melting point / freezing point:	No data available
Initial boiling point/boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability:	No data available
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Solubility:	Miscible in water
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available

9.2 – Other information

No further information available

10.0– Stability and reactivity

10.1 – Reactivity

Advice: Stable under recommended storage conditions

10.2 – Chemical Stability

Advice: Stable under normal conditions

10.3 – Possibility of hazardous reactions

Hazardous reactions: No information available

10.4 – Conditions to avoid

Conditions to avoid: Heat, flames and sparks

10.5 – Incompatible materials

Materials to avoid: Alkali metals, alkaline earth metals, strong oxidizing agents, nitric acid, sulphuric acid, peroxides (e.g. hydrogen peroxide)

10.6 – Hazardous decomposition products

Hazardous decomposition: Under fire conditions: carbon monoxide (CO), carbon dioxide (CO₂)

11.0– Toxicological information

11.1 – Information on toxicological effects

2,2'-oxybisethanol (CAS No. 111-46-6)

Oral

Value type: LD50
Value: approximately 1000 mg/Kg
Species: human

Inhalation

Value type: LC50
Value: >4.6 mg/L
Exposure time: 4 h
Species: rat

Dermal

Value type: LD50
Value: 13300 mg/Kg
Species: rabbit

12.0– Ecological information

12.1 – Toxicity

2,2'-oxybisethanol (CAS No. 111-46-6)

Fish

Species: Pimephales promelas (fathead minnow)
Value type: LC50
Value: 75200 mg/L
Exposure time: 96 h

Daphnia and other aquatic invertebrates

Species: daphnia magna
Value type: EC50
Value: >10000 mg/L
Exposure time: 48 h

Algae

Species: Scenedesmus quadricauda (green algae)

Value type: NOEC
Value: 2700 mg/L
Exposure time: 8 d

Bacteria

Species: activated sludge
Value type: EC50
Value: >1.995 mg/L
Exposure time: 0.5 h

12.2 – Persistence and biodegradability

No data available

12.3 – Bioaccumulative potential

No data available

12.4 – Mobility in soil

Mobile in water environment

12.5 – Results of PBT and vPvB assessment

No data available

12.6 – Other adverse effects

Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

13.0– Disposal considerations

13.1 – Waste treatment methods

Product: Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not empty into drains. Contact waste disposal services.

Contaminated packaging: Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning. Packaging that cannot be cleaned is to be disposed of in the same manner as the product. Do not burn, or use a cutting torch on the empty drum. Risk of explosion

14.0– Transport Information

14.1 – UN Number

Not dangerous goods for ADR, RID, IMDG and IATA

14.2 – UN proper shipping name

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ADR: n/a

RID: n/a

IMDG: n/a

14.3 – Transport hazardous class(es)

Labels/classification code/ hazard identification number /tunnel restriction code

ADR: n/a

RID: n/a

IMDG : n/a

14.4 – Packing group

ADR: n/a

RID: n/a

IMDG: n/a

14.5 – Environmental hazards

Labelling according to 5.2.1.8 ADR: No

Labelling according to 5.2.1.8 RID: No

Labelling according to 5.2.1.6.3 IMDG: No

Classification as environmentally hazardous according to 2.9.3 IMDG: No

Classified as 'P' according to 2.10 IMDG: No

14.6 – Special precautions for user

Not applicable

14.7 – Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IMDG: Not applicable

15.0– Regulatory Information

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

All components are REACH registered or are exempt from REACH registration

Our inks do not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57)

All components are listed on TSCA list of active substances

15.2 – Chemical safety assessment

No information available

16.0– Other Information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) and (EC) No. 1272/2008 (CLP)
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16.1 – Full text of H-Statements referred to under Sections 2 and 3

- H302: Harmful if swallowed
H319: Causes serious eye irritation
H373: May cause damage to organs (kidney) through prolonged or repeated exposure

16.2 – Further information

Other: The information provided in this safety data sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this safety data sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

Date of issue of safety data sheet: 21. 5. 2019		
Revision history:		
Version	Date	Changes

HS Tariff code: 32159070