

Product description: KORTHO INK KS4 RED

1. IDENTIFICATION OF THE SUBSTANCE OR THE MIXTURE AND OF THE COMPANY/BUSINESS

1.1 Product identifications

Product name: Kortho Ink KS4 red, 946 cm3
Internal code number: 083294
Product description: Printing ink

1.2 Relevant identified use of the substance or the mixture and use that is advised against

Identified use: Printing ink, printing of labels.

1.3 Details relating to the provider of the safety data sheet

Company: B.V. Korthofah
Lageweg 39
2222AG Katwijk ZH
The Netherlands
Telephone: 0031 71 40 60 480
E-mail address: export@kortho.nl

1.4 Telephone number in case of emergencies

Emergency telephone number: 111
Organisation/company: National Poisons Information Service (NHS Direct) – <http://www.npis.org>
(England, Wales and Northern Ireland - NHS 111 and Scotland - NHS 24)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or the mixture

Classification in accordance with directive (EC) No. 1272/2008

Flammable liquids (Category 2), H225
Serious damage to eyes/eye irritation (Category 1), H318
Specific target organ toxicity in case of a single exposure, irritation of the respiratory tract (Category 3), H335

For the full text on H statements as set out in this section, see section 16.

2.2 Labelling elements

Labelling in accordance with directive (EC) No. 1272/2008

Pictogram



Signal word

Warning

Hazard statement code (H code)

H225 Highly flammable liquid and vapour.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

Preventive code (P code)

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash all exposed external body areas thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Contains

Propan-1-ol

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Supplementary
hazard statements none

2.3 Other hazards

Contains Nitrocellulose. Printing using inks, which contain Nitrocellulose, is highly flammable.

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixture****Hazardous components according to Regulation (EC) No. 1272/2008**

Chemical name	Index. No.	EC No.	Cas No.	Conc. %	Category
4-hydroxy-4-methylpentan-2-on	603-016-00-1	204-626-7	123-42-2	50 <= 60	Flammable liquids 3; Eye irritation 2, STOT SE 3; H226, H319, H335
Ethyl alcohol	603-002-00-5	200-578-6	64-17-5	10 <= 20	Flammable liquids 2; H225
Propan-1-ol	603-003-00-0	200-746-9	71-23-8	5 <= 10	Flammable liquids 2; Eye irritation .1; STOT SE 3; H225, H318, H336
Isopropyl acetate	607-024-00-6	203-561-1	108-21-4	1 <= 5	Flammable liquids 2; Eye irritation. 2; STOT SE 3; H225, H319, H336,

For the full text on the H statements as set out in this section, see section 16.

4. FIRST AID MEASURES**4.1 Description of first aid measures****General advice**

Seek medical advice. Show this safety data sheet to the duty doctor.

In case of inhalation

Take the victim into the fresh air in cases of inhalation. If breathing has stopped, perform artificial respiration. Seek medical advice.

In case of skin contact

Wash off with soap and plenty of water. Seek medical advice.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and seek medical advice.

In case of ingestion

DO NOT induce vomiting. Never attempt to get an unconscious person to drink (or eat). Rinse mouth with water. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described on the label (see section 2.2) and/or section 1.1.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5. FIRE FIGHTING MEASURES**5.1 Fire extinguishers****Suitable fire extinguishers**

Use water spray, alcohol-resistant foam, dry powder or carbon dioxide.

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- 5.2 Special hazards arising from the substance or mixture**
Carbon oxides.
- 5.3 Advice for fire-fighters**
Where necessary, wear self-contained breathing apparatus when fire fighting.
- 5.4 More detailed information**
Use water spray to cool down unopened containers.

6. MEASURES IN THE EVENT OF THE ACCIDENTAL RELEASE OF THE SUBSTANCE OR PREPARATION

- 6.1 Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid breathing in vapours/mist/gas. Ensure there is adequate ventilation. Remove all sources of ignition. Beware of vapours, which accumulate into explosive concentrations. Vapours can accumulate in low-level rooms. For personal protective equipment, see section 8.
- 6.2 Environmental precautions**
Prevent further leakage or spillage if safe to do so. Do not allow product to get into the drains.
- 6.3 Containment and cleaning methods and materials**
Contain spills and collect using electrically protected vacuum cleaner or by wet-mopping and transferring into a container for disposal in accordance with local regulations (see section 13).
- 6.4 Reference to other sections**
For waste disposal, see section 13.

7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling of the substance or mixture**
Avoid contact with eyes or skin. Avoid breathing in vapour or mist.
Keep away from sources of ignition – No smoking. Take measures to prevent the creation of electrostatic charges.
For precautionary measures, see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities**
Store in a cool place. Store in tightly closed container in a dry and well ventilated place. Carefully close opened containers and store upright to prevent leaks.

Keep away from oxidising agents and strong bases.
- 7.3 Specific end use(s)**
Some of the applications set out in section 1.2 - no other applications have been agreed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Control parameters**

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Components with limit values for the workplace

Component	CAS No.	Value	Control parameters	Base
Ethyl alcohol	64-17-5	TWA	500 ppm 1,000 mg/m3	Working conditions amendment - Statutory limit values
	Comments	Administrative limit value		
		TWA (time-weighted average) - 8 hours	260 mg/m3	Working conditions amendment - Statutory limit values
		Carcinogenic substances		
		TWA-15 min	1,900 mg/m3	Working conditions amendment - Statutory limit values
		Carcinogenic substances		

8.2 Measures to control exposure

Suitable technical measures

Use in accordance with effective industrial hygiene and safety. Wash hands before each work break and at the end of the working day.

Personal protective equipment

Protection of the eyes / the face

Face protection and safety goggles. Use face and/or eye protection tested and approved by official organisations such as NIOSH (US) or EN166 (EU).

Protection of the skin

Handle with gloves. Properly check gloves before use. Carefully remove gloves without touching the outside with your exposed hand. Immediately throw away used gloves in accordance with the valid laboratory regulations. Wash and dry your hands. The protective gloves must comply with the specifications of EU Directive 89/686/EEC and the standard EN 374, which has been derived from this.

Glove material: Nitrile*
Thickness of material: 0.4 ± 0.05mm
Penetration time: 120 minutes
(* Tested glove Nitrile I – KCL 0730)

Body protection

Impenetrable clothing, flame-retardant, anti-static protective clothing. The type of protective features depends on the concentration and quantity of hazardous substances in the workplace in question.

Material: Kleenguard
Type: T7 LAB (jacket) – T6 5ultra (suit)
Characteristics: EN1149-1 antistatic, non-heat retaining, protective clothing to prevent incendiary discharge. Clothing with a limited service life, which provides protection against chemicals and protects certain parts of the body:
- immediately throw clothing away after use;
- immediately throw damaged clothing away;
- strictly observe the operating instructions, which is supplied with the clothing.

Should unexpected contamination of the clothing worn under the protective clothing occur, then it should immediately be taken off and thrown away.

Protecting the respiratory tract

Whenever there are breathing risks, where necessary use a full-face respirator combined with (US) and/or type ABEK (EN 14387) breathing pattern as a support when undertaking a factory inspection. If the face mask is the only means of protection, use a full-face respirator (oxygen mask). Use respirators tested and approved by official government bodies such as NIOSH (US) or CEN (EU).

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Prevent further leakage or spillage if safe to do so. Do not allow product to get into the drains.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information about physical and chemical basic properties**

a)	Appearance	Form: liquid Colour: red
b)	Odour	Alcoholic
c)	Odour threshold value	N/A
d)	pH	No data available
e)	Melting/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flashpoint	22.0 °C
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	High/low flammability or explosion limit values	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	approx. 0.9 kg/dm ³
n)	Solubility in water	Immiscible
o)	Partition coefficient n-octanol / water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	15-30s DinCup4
s)	Explosion characteristics	No data available
t)	Oxidising characteristics	No data available

9.2 Other safety information

No data available.

10. STABILITY AND REACTIVITY**10.1 Reactivity**

No data available.

10.2 Chemical stability

Stable under the recommended storage conditions.

10.3 Potential hazardous reactions

No data available.

10.4 Conditions to be avoided

Heat, flames and sparks.

10.5 Incompatible materials

Oxidizing agents, strong bases.

10.6 Hazardous decomposition products

Other decomposition products - no data available.
In case of fire: see section 5.

11. TOXICOLOGICAL INFORMATION**11.1 Information about toxicological effects**

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Acute toxicity

Regarding the product itself, no information is available.

Inhalation

Exposure to compound vapours of solvents at concentrations higher than the specified maximum exposure limit may damage health, for example: irritation of the mucous membranes and respiratory system, as well as a possible adverse effect on the kidneys, liver and central nervous system. Symptoms include headache, dizziness, fatigue, myasthenia, drowsiness and in extreme cases unconsciousness.

Contact with the skin

Repeated or prolonged exposure to the product may result in the removal of fats from the skin, which may result in non-allergic contact dermatitis and may allow the substance to be absorbed through the skin.

Eye contact

Splashes in the eyes may cause irritation and damage.

Swallowing

No data available.

Mutagenicity in reproductive cells

No data available.

Carcinogenicity

IARC:

No component in this product, insofar as it is present in a concentration of more than or equal to 0.1% has been identified as a probable, possible or confirmed carcinogen by IARC.

Toxicity for reproduction

No data available.

Specific target organ toxicity - single exposure

No data available.

Specific target organ toxicity - repeated exposure

No data available.

12. ECOLOGICAL INFORMATION

General information:

Regarding the product itself, no information is available. The product must not enter drains or surface water.

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulation

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT- and vPvB assessment

PBT/vPvB assessment not available because a chemical safety assessment is not required/has not been performed.

12.6 Other harmful effects

In normal use, there are no known or anticipated environmental problems.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product description: KORTHO INK KS4 RED**Product**

Combustion in a chemical incineration plant fitted with an afterburner and a scrubber, but exercise extra caution when igniting it as this substance is highly flammable. Provide the remains and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Remove as unused product.

14. INFORMATION RELATING TO TRANSPORTATION**General information**

Transport the product in accordance with the provisions of the ADR for road transport, RID for rail transport, IMDG for sea transport and ICAO/IATA for air transport.

- 14.1 UN number**
ADR/RID: 1210 IMDG: 1210 IATA: 1210
- 14.2 Proper shipping name from the UN Model Regulations**
ADR/RID: PRINTING INK, FLAMMABLE
IMDG: PRINTING INK, FLAMMABLE
IATA: PRINTING INK, FLAMMABLE
- 14.3 Transport hazard class(es)**
ADR/RID: 3 IMDG: 3.2 IATA: 3
- 14.4 Packaging group**
ADR/RID: II IMDG: II IATA: II
- 14.5 Environmental hazards**
ADR/RID: no IMDG Marine pollutant: no IATA: no
- 14.6 Special precautions for the user**
No data available.

15. REGULATIONS

- 15.1 Specific health, safety and environmental regulations and legislation governing the substance or the mixture**
No data available.
- 15.2 Chemical safety assessment**
No chemical safety assessment has been carried out for this product.

16. OTHER INFORMATION**Full text of H statements to which reference is made in sections 2 and 3**

- H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

List of abbreviations and acronyms

- ADR Accord européen relatif au transport international des marchandises Dangereuses par Route: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS Chemical Abstracts Service (division of the American Chemical Society).
EINECS European Inventory of Existing Commercial Chemical Substances.
GHS Globally Harmonized System of Classification and Labelling of Chemicals.
IATA International Air Transport Association.

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IMDG	International Maritime Dangerous Goods code: International code for the transportation of hazardous substances at sea.
NVIC	Nationaal Vergiftigingen Informatie Centrum [National Poisons Information Centre].
PBT	Persistent, bioaccumulating and toxic.
REACH	Registration, Evaluation and Authorisation of Chemicals.
RID	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations for the transportation of hazardous substances by train).
STOT SE	Specific target organ toxicity – single exposure.
vPvB	Very Persistent and very Bioaccumulative.

Classification procedures

Classification in accordance with Regulation (EC) No. 1272/2008	Classification procedure
Flammable Liquid 2. H225	Test data
Eye irritation. 2. H319	Calculation method
Stot. Se. 3. H335	Calculation method

Revision

This SDS replaced the previous release with version number 07/11.01.2016. The emergency number has been changed.

More detailed information

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