

Product description: KORTHO INK GJ3 BLACK, 2X 200CM3

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

1.1 Product identifications

Product name : Kortho Ink GJ3 black, 2x200 cm3
Internal code number : 083774
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

Product definition : mixture

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

Aspiration Toxicity (Category 1), H304

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

See section 11 for more detailed information on health effects and symptoms.

2.2 Labelling elements

According to Regulation (EC) No 1272/2008 [CLP]

Hazard Pictogram :



Signal Word : Danger

Hazard Statement(s)

H304 : May be fatal if swallowed and enters airways.

Precautionary statements

P301+P310 : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 : Do NOT induce vomiting.
P501 : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients : Distillates (petroleum), hydrotreated light.

Supplemental label elements : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification : None known.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

<u>Component</u>	<u>Identifiers</u>	<u>Cont.%</u>	<u>Classification Regulation (EC) No 1272/2008 [CLP]</u>	<u>Type</u>
Distillates (petroleum) Hydrotreated light	REACH#: 01-2119456620-43 EC: 265-149-8 CAS: 64742-47-8 Index: 649-422-00-2	50-80%	Asp.Tox. 1, H304	[1]
Distillates (petroleum) Hydrotreated middle	REACH# 01-2119489867-12 EC: 265-148-2 CAS: 64742-46-7 Index: 649-221-00-x	10-20%	Asp.Tox. 1, H304	[1]
Distillates (petroleum) Hydrodesulfurised Middle	EC: 265-183-3 cas: 64742-80-9	5-10%	Acute Tox. 4, H332 Asp. Tox. 1, H304	[1]

See section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type:

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in section 8.

4. FIRST AID MEASURES

4.1 Description of first aid measures

- General advice** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
- In case of inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- In case of skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- In case of eye contact** : Check for and remove any contact lenses. Immediately flush eyes with room temperature water for at least 15 minutes, keeping eyelids open. In case of accidental eye contact, avoid concurrent exposure to the sun or other sources of UV light which may increase the sensitivity of the eyes.
- In case of ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Protection of first aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to medical doctor

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

5. FIRE FIGHTING MEASURES

5.1 Fire extinguishers

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the mixture : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

5.3 Advice for fire-fighters

Special protective actions for fire-fighters

: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters

: Appropriate breathing apparatus may be required.

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

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Containment and cleaning methods and materials

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Preferably clean with a detergent. Avoid using solvents.

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7. HANDLING AND STORAGE

7.1 Precautions for safe handling of the substance or mixture

Keep container tightly closed.
Avoid contact with skin and eyes. Avoid inhalation of vapour, spray or mist.
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
Put on appropriate personal protective equipment (see section 8).
Never use pressure to empty. Container is not a pressure vessel.
Always keep in containers made from the same material as the original one.
Comply with the health and safety at work laws.

7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 5 - 35 °C.
Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight.
Keep container tightly closed.

No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits : No exposure limit value known.

Recommended monitoring Procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy)
European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents)
European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

8.2 Measures to control exposure

Appropriate engineering Controls

: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

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Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Face protection and safety goggles. Use face and/or eye protection tested and approved by official organisations such as NIOSH (US) or EN166 (EU).
- Skin protection**
- Hand protection** : Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.
- Gloves** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- 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.
- Respiratory protection** : 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).
- Environmental exposure controls** : Do not allow to enter drains or watercourses.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information about physical and chemical basic properties

- Physical state** : Liquid.
- Colour** : Black.
- Odour** : Characteristic.
- Odour threshold** : Not applicable.
- Melting point/freezing point** : Not applicable.
- Flash point** : 60 to 93.3°C.
- VOC** : Not applicable.
- pH** : Not tested.
- Lower explosion limit** : Lower: 0.6%.
Upper: 5.5%.
- Boiling point** : Lowest known value: 90°C.
- Evaporation rate** : Highest known value: <1 (distillates (petroleum), hydrotreated light) Weighted average: 0.9 compared with butyl acetate.
- Upper/lower flammability or Explosive limits** : Lower: 0.6%.
Upper: 5.5%.

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Vapour pressure	: 0.031 to 0.06 kPa (0.23 to 0.45 mmHg).
Vapour Density	: 4.5 [Air = 1].
Relative density	: Not tested.
Solubility(ies)	: Not tested.
Partition coefficient: n-octanol/ water	: Not applicable.
Auto-ignition temperature	: >220°C.
Decomposition temperature	: Not applicable.
Viscosity	: Kinematic (40°C): <0.2 cm ² /s (<20 cSt)
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.

9.2 Other safety information

No additional information.

10. STABILITY AND REACTIVITY

- 10.1 Reactivity**
No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability**
Stable under recommended storage and handling conditions (see section 7).
- 10.3 Potential hazardous reactions**
Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to be avoided**
When exposed to high temperatures may produce hazardous decomposition products.
- 10.5 Incompatible materials**
Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
- 10.6 Hazardous decomposition products**
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

There are no data available on the mixture itself. The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.
If splashed in the eyes, the liquid may cause irritation and reversible damage.
This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

11.1 Information about toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrosulfurised middle	LC50 Inhalation Dusts and mists	Rat	4600 mg/m ³	4 hours

Irritation/Corrosion

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Sensitisation

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Mutagenicity

Not applicable.

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Carcinogenicity

Not applicable.

Reproductive toxicity

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Teratogenicity

Not applicable.

12. ECOLOGICAL INFORMATION

General information:

There are no data available on the mixture itself.
Do not allow to enter drains or watercourses.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

12.1 Toxicity

Distillates (petroleum), hydrotreated light Acute LC50 2200 µg/l Fresh water Fish - *Lepomis macrochirus* – 35 to 75 mm 4 days

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulation

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (KOC)

: Not available.

Mobility

: Not available.

12.5 Results of PBT- and vPvB assessment

PBT

: Not applicable.

vPvB

: Not applicable.

12.6 Other harmful effects

No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

For further information, contact your local waste authority.

13.1 Waste treatment Methods

Product methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Packaging methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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- European Waste Catalogue (EWC)** : 08 03 13 waste ink other than those mentioned in 08 03 12.
- Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. INFORMATION RELATING TO TRANSPORTATION

- 14.1 UN number**
ADR/RID: Not regulated. ADN: Not regulated. IMDG: Not regulated. IATA: Not regulated.
- 14.2 Proper shipping name from the UN Model Regulations**
ADR/RID: Not regulated. ADN: Not regulated. IMDG: Not regulated. IATA: Not regulated.
- 14.3 Transport hazard class(es)**
ADR/RID: Not regulated. ADN: Not regulated. IMDG: Not regulated. IATA: Not regulated.
- 14.4 Packaging group**
ADR/RID: -- ADN: -- IMDG: -- IATA: --
- 14.5 Environmental hazards**
ADR/RID: No. ADN: No. IMDG: No. IATA: No.
- Additional information**
ADR/RID: Tunnelcode (E) ADN: -- IMDG: -- IATA: --
- 14.6 Special precautions for the user**
- Transport within user's premises** : Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code**
Not available.

15. REGULATIONS

- 15.1 Specific health, safety and environmental regulations and legislation governing the substance or the mixture**

EU Regulations (EC) No. 1907/2006 (REACH)
Annex XIV - List of substances subject to authorisation

Substances of very high concern : None of the components are listed.

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not Applicable.

Other EU regulations

Industrial use : The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

- 15.2 Chemical safety assessment**
This product contains substances for which Chemical Safety Assessments are still to be received.

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16. OTHER INFORMATION

Data sources

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

None.

CEPE code : 8

Full text of H statements to which reference is made in sections 2 and 3

H304 May be fatal if swallowed and enters airways.
H332 Harmful if inhaled.

Full text of classifications [CLP/GHS] to which reference is made in sections 2 and 3

Acute Tox. 4, H332 ACUTE TOXICITY: INHALATION - Category 4
Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1

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).
ADN Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieures (European Agreement concerning the international Carriage of Dangerous Goods by Inland Waterways).
ATE Acute Toxicity Estimate.
CAS Chemical Abstracts Service (division of the American Chemical Society).
CLP Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008].
DNEL Derived No Effect Level.
EINECS European Inventory of Existing Commercial Chemical Substances.
EUH
Statement CLP-specific Hazard statement.
GHS Globally Harmonized System of Classification and Labelling of Chemicals.
IATA International Air Transport Association.
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.
PNEC Predicted No Effect Concentration.
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).
RRN REACH Registration Number.
STOT SE Specific target organ toxicity – single exposure.
vPvB Very Persistent and very Bioaccumulative.

Revision

This SDS replaced the previous release with revision date 05.01.2016. Section 16 ADN added to the list with abbreviations.

More detailed information

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions.

It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

While the information is believed to be reliable, we do not guarantee its accuracy. Purchasers are encouraged to make their own tests with materials described herein and must make independent determination of suitability and completeness of information from all sources to assure proper use with materials and compatibility with equipment.

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The above information is assumed to be correct but does not make any claim of completeness and should only be used as a guideline. Korthofah BV is not liable for any eventual damage arising out of the handling of or contact with the aforementioned product.

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