

MATERIAL SAFETY DATA SHEET

kortho

The mark of preference

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Product name : KORTHO K-LON INK ROLL 55 PI BLACK

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF COMPANY UNDERTAKING

Product identification number : 048029
Product name : KORTHO INK ROLL 55 PI BLACK
Identification of the substance : BLACK INK WITHIN PVC STRUCTURE

Company : B.V. KORTHOFAH
LAGEWEG 39, P.O. BOX 3040
2222 AG KATWIJK ZH
HOLLAND
TEL: +31-71-4060480
FAX: +31-71-4032807

Emergency telephone : 001 800 424 9300
Organisation : Chemtrec

2. HAZARDS IDENTIFICATION

HMIS Rating: Health: 2 Flammability: 1 Reactivity: 0

NOTE: HMIS and NFPA ratings involve data and interpretations that may vary from company to company.

They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information in the MSDS must be considered.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Per OSHA 29 CFR1910.1200

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>%</u>	<u>ACGIH (TLV)</u>	<u>OSHA (PEL)</u>
Diethanolamine	111-42-2	1.0%	3 ppm TWA	3 ppm TWA
Carbon Black	1333-84-4	1.5%	3.5 mg/ m3	3.5 mg/m3
Butyl Benzyl Phthalate	85-68-7	20.0%	-	-
Tricresyl Phosphate	1330-78-5	10 - 30%	-	-

Manufacturer states all other ingredient information is proprietary or non-hazardous as defined by the Hazard Communication Standard (29 CFR 1910.1200)

4. FIRST AID MEASURES

Eye contact : Any material that contacts the eye should be immediately flushed with water, lifting the upper and lower lids. Get immediate medical attention if any symptoms occur.

Skin contact : Wash immediately with soap and water. Apply skin cream if irritated. Seek medical attention if symptoms occur.

Inhalation : If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Ingestion : Unknown - None expected. Seek medical attention.

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5. FIRE-FIGHTING MEASURES

- Fire extinguishing materials** : Water spray, carbon dioxide, dry chemical.
- Special firefighting procedures** : Wear self-contained breathing apparatus and protective clothing.
- Unusual fire and explosion hazards** : May emit toxic gases.

6. ACCIDENTAL RELEASE MEASURES

- Spill response procedures and employee protection measures** : Contain spills with rags of dry absorbant. Use a suitable ink cleaner to remove any residue. Wear protective gloves to minimize skin contact.
- Disposal methods** : Discard waste while observing all local, state and federal regulations.
- In case of a spill** : Use absorbent material such as rags to contain the spill when necessary. Place in proper container for disposal.

7. HANDLING AND STORAGE

- Personal precautionary measures** : No additional precautions necessary
- Prevention of fire and explosion** : No unusual hazards

Keep containers closed when not in use. Use with adequate ventilation.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

<u>Component</u>	<u>CAS Reg. No.</u>	<u>OSHA</u>	<u>ACGIH</u>
Diethanolamine	111-42-2	3 ppm TWA	3 ppm TWA
Carbon Black	1333-86-4	3.5 mg/m ³	3.5 mg/m ³

- Ventilation** : General ventilation sufficient.
- Personal Protection** : Good industrial hygiene practices should be followed which include preventing eye contact, minimizing skin contact and inhalation.
- Respiratory Protection** : None should be needed under normal use and conditions with stated ventilation.
- Eye Protection** : Safety glasses.
- Skin Protection** : Protective gloves to minimize contact to all chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Boiling point, Deg F** : > 300
- Specific gravity** : 1.0 - 1.2
- Melting point, Deg F** : NA
- Water solubility** : Negligible

Product name : KORTHO K-LON INK ROLL PI BLACK

Vapor density : Heavier than air
Vapor pressure : Negligible
Appearance / odor : Black gel, slight odor
Evaporation rate : < Butyl Acetate
Flash point, Deg. F : > 200, TCC
Flammable limits in air : **upper** : N/A
lower : N/A
Auto ignition temp : N/A

10. STABILITY AND REACTIVITY

Stability: **Stable** : xxx **Unstable:**
Conditions to avoid : Temperature extremes.
Materials to avoid : Strong oxidizing agents.
Hazardous decomposition products : Combustions will produce oxides of carbon and nitrogen.
Hazardous polymerization : Will not occur.

11. TOXICOLOGICAL INFORMATION

Effects of acute overexposure
Inhalation : None expected
Eye : May be irritating
Skin : May be irritating
Ingestion : Not expected to be a route of entry
Mutagenicity : NE. None of the ingredients used have tested positive in the Ames Test
Chronic Effects : Diethanolamine is a nephrotoxin..

12. ECOLOGICAL INFORMATION

This material as not been tested overall for environmental effects.
The following ingredients are noted as DOT marine pollutants in Appendix B to 49 CFR 172.101: Tricresyl Phosphate.

13. DISPOSAL CONSIDERATIONS

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14. TRANSPORT INFORMATION

D.O.T. Shipping Name : Non-regulated

Product name : KORTHO K-LON INK ROLL PI BLACK

DOT Hazard Class : NA

UN Number : NA

Exemptions and other requirements may apply, consult 49 CFR - Transportation

15. REGULATORY INFORMATION

Material(s) known to the State of California to cause cancer:

Aniline <0.03%,
Vinyl Chloride <0.001%
Carbon Black

Material(s) known to the State of California to cause adverse reproductive effects:

None

International Agency for Research on Cancer (IARC) components present at 0.1 % or greater:

Carbon Black

National Toxicology Program (NTP) components present at 0.1% or greater:

None

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Ammendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372:

Diethanolamine

Chemical(s) subject to the reporting requirements of SARA Title III Section 304 and 40 CFR Part 302.4 (CERCLA Hazardous Substances):

Diethanolamine, Butyl Benzyl Phthalate

Chemical(s) subject to SARA Title III Section 302 and 40 CFR Part 355 (Extremely Hazardous Substances):

None

Safety Considerations : No special

TSCA Status : All chemical ingredients found on TSCA Inventory

RCRA Status : If discarded in its purchased form, this product would carry the following status and classifications by listing or characteristic codes:

Status : Non-regulated
RCRA Hazardous Waste Codes : NA

However, it is the responsibility of the end-user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste.

40 CFR 261.20-24

16. OTHER INFORMATION

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.

NA = Not Applicable
NE = Not Established