



Material Safety Data Sheets

CONSIDERED A HAZARDOUS SUBSTANCE ACCORDING TO OSHA 29 CFR 1910.1200.

1. Product and Company Identification

Product Name : UV ink LH-100/LF-200 washing Liquid
Product Code : SPC-0606FS
General Use : Cleaning solution for ink jet printer
Product Description : Solvent liquid
MSDS Number :031-35C080C
Manufacture
Company Name : Mimaki Engineering Co., Ltd
Address : 2182-3 Otsu, Shigeno, Tomi-shi, Nagano 389-0512 Japan
Telephone No. : +81-268-64-2413
Importer/Distributor Established in USA
Company Name : MIMAKI USA. INC.
Address : 150 Satellite Boulevard, suite A, Suwanee, Georgia 30024, U.S.A
Telephone No. : 1-678-730-0100
Emergency Telephone No. : +81-268-64-2413

2. Hazards Identification

Potential Health Effects

Inhalation : May cause respiratory tract irritation.
Eye Contact : May cause eye irritation.
Skin Contact : May cause skin irritation.
Ingestion : May cause irritation of the digestive tract.
Carcinogens : No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.

Potential Environmental Effects : No information available.

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3. Composition / Information On Ingredients

No	Chemical Name	Wt%	CAS No.	Chemical Formula
1	Higher Alcohols	35 - 45	Trade Secret	-
2	3,6,9,12-Tetraoxahexadecanol	35 - 45	1559-34-8	C ₁₂ H ₂₆ O ₅
3	2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	15 - 35	6846-50-0	C ₁₆ H ₃₀ O ₄

OSHA Hazardous Components (29 CFR 1910.1200) : None of the chemicals in this product are considered highly hazardous by OSHA.

4. First Aid Measures

Inhalation : Remove from exposure and move to fresh air immediately.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
Get medical aid if cough or other symptoms appear.

Eye Contact : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention if symptoms occur.

Skin Contact : Wash with soap and water. Get medical attention if symptoms occur.

Ingestion : Rinse mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

5. Fire Fighting Measures

Flammable Properties : Autoignition Temperature: Not available
Flash Point: OPEN CUP: 140 degree C (infer).
Flammable Limits: LOWER: 0.48% UPPER: 8.00%
Flammability of the product: May be combustible at high temperature.

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Extinguishing Media	: Use agent most appropriate to extinguish fire. Use dry chemical, carbon dioxide, or appropriate form.
Fire Fighting	: As in any fire, wear a self-contained breathing apparatus in
Instructions	pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Will burn if involved in a fire. Use water spray to keep fire-exposed containers cool. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Containers may explode when heated. Cool containers with flooding quantities of water until well after fire is out.

6. Accidental Release Measures

Personal Precautions	: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment. Use proper personal protective equipment as indicated in Section 8
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Spills / Leaks	: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

7. Handling And Storage

Handling	: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Use with adequate ventilation.
Storage	: Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep container dry. Keep in a cool place.

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Ground all equipment containing material.

Keep container tightly closed. Keep in a cool, well-ventilated place.

Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

8. Exposure Controls / Personal Protection

Exposure Limit Values : none listed

Exposure Controls

Occupational Exposure Controls

Engineering Controls : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal Protection

Respiratory Protection



: Vapor respirator. Be sure to use an approved/certified respirator or equivalent. A self contained breathing apparatus should be used to avoid inhalation of the product. Not required if handled in a ventilated enclosure. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hand Protection

: Gloves.



Eye Protection

: Wear coverall, chemical goggles and face shield when handling



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Skin Protection

: To prevent any contact, wear impervious clothing such as gloves, apron, boots, or whole body suits made from neoprene, as appropriate.

**Boots****Protective Apron**

9. Physical And Chemical Properties

Appearance	- Physical state	: liquid (25 degree C)
	- Color	: clear, colorless
Odor		: Practically odorless
pH		: Not available
Boiling Point / Boiling Range		: 280 - 360 degree C
Melting Point / Melting Range		: -5 - 0 degree C
Decomposition Temperature		: Not available
Flash Point		: 140 degree C (infer)
Auto-Ignition Temperature		: Not available
Flammability(solid, gas)		: Not available
Vapor Pressure		: under 1.3 Pa (20 degree C)
Specific Gravity		: 0.92 (Water = 1)
Viscosity		: Not available
Solubility		: Soluble in methanol, acetone
Water solubility		: Almost insoluble in water.
Vapor density		: 9.85
VOC		: 100%

10. Stability And Reactivity

Conditions To Avoid	: Stable under normal handling and storage conditions.
Stability	: Stable under normal temperatures and pressures.
Materials To Avoid	: Strong oxidizing agents.
Hazardous Reactions/	: Carbon monoxide, Carbon dioxide
Decomposition Products	



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11. Toxicological Information

Acute Toxicity	: Not available
Eye Irritation	: Not available
Skin Irritation	: Not available
Sensitization	: Not available
Chronic Toxicity	: Not available
Carcinogenicity	: No listed by ACGIH, IARC, NTP.
Mutagenicity	: Not available

12. Ecological Information

Ecotoxicity	: Not available.
Persistence And Degradability	: Not available.
Bioaccumulative Potential	: Not available.
Other Adverse Effects	Handling is noted because it might influence the environment when leaking and abandoning it. Especially, note that the product doesn't flow directly to ground, the river, and the drain ditch.

13. Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Comply with all USA, national and local regulations.

Do not dump this product into sewers, on the ground or into any body of water.



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14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

UN Recommendation on the Transport of Dangerous Goods

UN class : Class not regulated

UN No. : Not regulated

15. Regulatory Information

This product is not hazardous under the UN classification.

Inventory status;

UNITED STATES (TSCA) : Y

CANADA (DSL) : Y

EUROPEAN UNION (EINECS) : Y

AUSTRALIA (AICS) : Y

JAPAN (METI) : Y

SOUTH KOREA : Y

CHINA : Y

Others : Please refer to any other federal, state and local regulations.

16. Other Information

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Mimaki Engineering Corporation.

It relates only to the specific material designated herein, and dose not relate to use in combination with any other material or process.

Mimaki Engineering Corporation assumes no legal responsibility for use or reliance upon this information.

Revision history

Version	Date	Content
1.0	4/10/2009	First issue