

SDS No. 037-O010576

First issue: 2008/02/08 Revised: 2017/07/18

Product Name: UV Primer GM-1

Safety Data Sheets

Identification

Product Name : UV Primer GM-1

Order No. : SPC-0541 General Use : For ink jet

Product Description : The undercoating liquid

SDS Number : 037-O010576

Manufacture

Company Name : Mimaki Engineering Co., Ltd.

Address : 2182-3 Shigeno-otsu, 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. : +1-678-730-0700 Emergency Telephone No. : +81-268-64-2281

Hazards Identification

[GHS Classification]

Physical Hazards

Flammable Liquids : Category 2

Health Hazards

Acute Toxicity - Oral : Not classified Acute Toxicity - Dermal : Not classified Acute Toxicity – Inhalation : Not classified Skin Corrosion / Irritation : Not classified Eye Damage / Irritation : Category 2 Sensitization – Respiratory : Not classified Sensitization – Skin : Category 1 Germ Cell Mutagenicity : Category 1 Carcinogenicity : Not classified Toxic to Reproduction : Category 1

Specific Target Organ Toxicity : Category 3 (respiratory irritation)

(Single Exposure)



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Specific Target Organ Toxicity : Category 1 (liver)
(Repeated Exposure) : Category 2 (nerve)

Environmental Hazards

Hazardous to the Aquatic : Not classified

Environment - Acute Hazard

Hazardous to the Aquatic : Not classified

Environment - Long Term Hazard

The above list does not include category being non-classifiable or not-applicable.

[GHS Label Elements]

Symbol







Signal Word Danger

Hazard Statements

H225 Highly flammable liquid and vapour

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H336 May cause drowsiness or dizziness

H340 May cause genetic defects

H360 May damage fertility or the unborn child

H372 Causes damage to organs (liver) through prolonged or repeated exposure

H373 May cause damage to organs (nerve) through prolonged or repeated exposure

Precautionary Statements

[Prevention]

P201 Obtain SDS (Safety Data Sheet) and printer's operation manual before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe gas/mist/vapours.

P264 Wash hands and eyes thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.



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P280 Wear protective gloves/protective clothing/eye protection/face protection.

[Response]

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water[or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a POISON CENTER/doctor if you feel unwell.

P321 Specific treatment (see 4-Response on our website/SDS URL: www.mimaki.co.jp/sds).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P370+P378 In case of fire: Use Carbon dioxide, Alcohol-resistant-related fire foam, powder, dry sand for extinguish.

[Storage]

P405 Store locked up.

P403+P233+P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.

[Disposal]

P501 Dispose of contents and container in accordance with local, regional, national and international regulation.

HMIS Rating (scale 0-4)

NFPA Rating (scale 0-4)

Health = 2*

Flammability= 3

Reactivity = 1



Health = 3
Flammability = 2
Instability = 1
Special =



3. Composition / Information on Ingredients

No	Chemical Name	Wt%	CAS No.	Chemical
				Formula
1	Ethanol	80-90	64-17-5	СН3СН2ОН
2	Water	10-20	7732-18-5	H2O
3	Others	1-5	Trade Secret	Trade Secret

OSHA Hazardous

: None of the chemicals in this product are considered highly hazardous by OSHA.

Components

(29 CFR 1910. 1200)

^{*}additional chronic hazards present



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4. First Aid Measures

Inhalation : Remove person to fresh air and keep comfortable for breathing. If

not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a POISON CENTER or doctor/physician. Do not

use mouth-to-mouth resuscitation.

Eye Contact : Flush eyes with plenty of water for at least 15 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Get

immediate medical attention.

Skin Contact : Remove all contaminated clothing, shoes and socks from the affected

areas as quickly as possible. Wash the affected area under running water using a mild soap. If irritation persists, arrange for transport to the nearest medical facility for examination and treatment by a

physician as soon as possible.

Ingestion : Never give anything by mouth to someone who is unconscious or

convulsing. If the victim is responsive, give him one or two glasses of

water. And refer for medical attention.

Indication of Immediate

Medical Attention and Special Treatment

Needed, If Needed

: Treat symptomatically and supportively.

5. Fire Fighting Measures

Flammable Properties : The harmful gas such as carbon monoxide or the low molecule

monomer occurs by combustion.

Flash Point; 18degree C (Tag Closed cup)

Extinguishing Media : Dry chemical powder, form and carbon dioxide, water spray.

Fire Fighting : Fight fire from maximum distance. Shut off fuel to fire if possible to

Instructions do so without hazard. Wear full fire-fighting turn-out gear (full

bunker gear) and respiratory protection (self-contained breathing

apparatus).



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6. Accidental Release Measures

Personal Precautions : Wear personal protective clothing and equipment, see Section 8.

Shut off all sources of ignition; No smoking or flames in area.

Land Spill : Absorb spill with inert material (e.g., dry sand or earth), then place

in closed containers using non-sparking tools.

Water Spill : Prevent spills from entering sewers, watercourses or low areas. Do

not wash away into shower or waterway.

7. Handling and Storage

Handling

: Obtain SDS (Safety Data Sheet) and printer's operation manual before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting] equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe gas/mist/vapours. Wash hands and eyes thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Keep container closed when not in use. Make available in the work area emergency shower and eyes wash. Avoid contact with skin or eyes. Only use tools and equipment resistant to organic solvents. Do not flush to sewer or waterways.

Storage

Estore locked up. Store product in tightly closed original containers in dry and cool place protected from sunlight fluorescent light, preferably at below 25 degree C on impermeable ground. Steam and moisture are prevented being mixed. Keep away from heat, sparks, and flame. Keep away from sources of ignition. Do not store near perchlorates, peroxides, chromic acid or nitric acid.



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Exposure Controls / Personal Protection

Exposure Limit Values

No	Chemical Name		TWA/ TLV		
1	Ethanol	ACGIH	1000ppm TWA , 1900mg/m3 TWA		
		NIOSH	1000ppm TWA , 1900mg/m3 TWA		
		OSHA PEL	1000ppm TWA , 1900mg/m3 TWA		

Exposure Controls

Occupational Exposure Controls

Engineering Controls : Provide local exhaust or process enclosure ventilation system. Ensure

compliance with applicable exposure limits.

Use exhaust ventilation to keep airborne concentration below

exposure limits. Use explosion-proof [electrical/ventilation/lighting]

equipment.

Personal Protection : Follow the general guidelines of good industrial hygiene.

Avoid any direct contact with the product.

Never breathe product vapor.

: Wear gas masks for organic gases. Respiratory

Protection Wear ventilation masks when working in closed area.

An air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where air-borne

concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited.

Hand Protection

: Wear gloves that resist organic solvents and chemicals.

Eye Protection

Gloves

: 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.

Environmental Exposure Controls

: Not available

9. Physical and Chemical Properties

Appearance - Physical state : liquid

- Color : Clear

Odour : Characteristic

pH : 3~5

Boiling Point / Boiling Range : 77 degree C

Melting Point / Melting Range : Not applicable

Flash Point : 18 degree C (Tag Closed cup)

Auto-Ignition Temperature : 439 degree C /Ethanol

Explosive Properties : the lower limit 3.3vlo%, the upper limit 19.0vol%

/Ethanol

Vapour Pressure : 5.878kPa (20 degree C) /Ethanol

Vapor Density : 1.59 (air=1) / Ethanol Solubility : Soluble (Alcohol, Ether)

Water solubility : Soluble

Viscosity : 1.2mPa·s (20 degree C) /Ethanol

Partition Coefficient(n-octanol/water) : logPow-0.3 /Ethanol

10. Stability and Reactivity

Conditions to Avoid : Sunlight, heat, open flames, high temperature, sparks, static

electrical charge, other ignition sources, moisture

Stability : Stable under the usual handling conditions.

Materials to Avoid : Oxidizers, peroxides, acids, acid chlorides, acid anhydrides, alkali

metals, ammonia

Decomposition Products : Methanol(Flammable and Poisonous liquid), carbon monoxide may be

formed.



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11. Toxicological Information

Acute Toxicity : Ethanol

Oral LD50 Rat; 9000mg/kg

Inhalation LC50 Rat; 20000ppm/10h

Eye Irritation : Ethanol

rabbit; 500mg/24H; Mild(85JCAE -, 189, 1986)

Skin Irritation : Ethanol

rabbit; 20mg/24H; Moderate(85JCAE -, 189, 1986)

Mutagenicity : Ethanol

DNA damage; S.cerevisiae; 850mmol/L(MUREAV 326,165,1995) Mutation in microorganisms; S.typhimurium; 11pph(ENVRAL 52,

225, 1990)

Cytogenetic analysis; human; lymphocyte; 2.5pph/24H(MUREAV

537, 117, 2003)

Carcinogenicity : Ethanol

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown

Relevance to Humans

IARC : Monograph 100E [2012] (in alcoholic beverages);

Monograph 96 [2010] (in alcoholic beverages)

OSHA: Present

Reproductive and Developmental Toxicity

: Ethanol

TDLo(orl,woman): 250mg/kg(37 W preg); Effects on Embryo or

Fetus - other effects to embryo(AJOGAH 145,251,1983)

TDLo(orl,rat): 22.5gm/kg(11-20 D preg); Specific Dveropmental

Abnormalities - Central Nervous Systems(NETEEC 24, 719, 2002)

Others : Ethanol

TUMORIGENIC DATA: TDLo(orl,mouse):

320mg/kg/50W-I(CALEDQ 13,345,1981)



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12. Ecological Information

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.

Ecotoxicity : Ethanol

Trout baby; LC50 11.2g/l·24h

A kind of carp; LC50 18~13.4g/l 96h

Creek chub; LC50 7g/l·24h

Guppy; LC50 11g/l·7day

Persistence And : Ethanol

Degradability BOD 0.93~1.67mg/mg

Bioaccumulative : Not available.

Potential

Other Adverse Effects : Not available.

13. Disposal Considerations

: Comply with all USA, national and local regulations.

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

14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

Follow all regulation in your country.

Us Department of Transportation (DOT)

Hazardous Materials : Ethanol

Hazardous Materials : Ethanol, mixture

Description and Proper Shipping

Name

Hazardous Class or : 3 Combustible liquid

Division



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Identification Number : UN1170

Packing Group (PG) : II Label(s) Required : 3

Sea Transport (IMDG)

Class : 3
Packing Group (PG) : II
UN Number : 1170

Proper Shipping Name : Ethanol, mixture

Marine Pollutant : No

Air Transport (ICAO/IATA)

Class : 3
Packing Group(PG) : II
UN Number : 1170

Proper Shipping Name : Ethanol, mixture

15. Regulatory Information

OSHA Status : None of the chemicals in this product are considered highly

hazardous by OSHA.

TSCA Status : All components on TSCA INVENTORY.

CERCLA Reportable : Not Applicable

Quantity

(40 CFR 117, 302)

SARA Title

Section 302 : Not Applicable

(40 CFR 355)

Section 311/312 : Not Applicable

(40 CFR 370)

Section 313 : Not Applicable

(40 CFR 372)

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



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16. Other Information

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