

1. 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 NE , suite A, Suwanee, Georgia 30024,	
	U.S.A.	
Telephone No.	:+1-678-730-0170	
Emergency Telephone No.	: +1 866 928 0789 (within United States only, Toll free)	
	$+1\ 215\ 207\ 0061$	

2. Hazards Identification

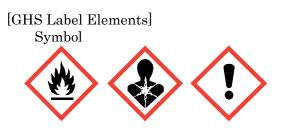
[GHS Classification]	
Physical Hazards	
Flammable Liquids	Category 2
Health Hazards	
Acute Toxicity – Oral	: Not classified
Acute Toxicity – Dermal	: Not classified
Acute Toxicity – Inhalation	: Not classified
Skin Corrosion / Irritation	: Not classified
Eye Damage / Irritation	: Category 2
${\bf Sensitization-Respiratory}$: Not classified
$\mathbf{Sensitization} - \mathbf{Skin}$	Category 1
Germ Cell Mutagenicity	Category 1
Carcinogenicity	: Not classified
Toxic to Reproduction	Category 1



Product Name: UV Primer GM-1 SDS No. 037-0010576 First issue: 2008/02/08 Revised: 2019/11/25

iratory irritation)
c)
ve)

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



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. 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 = $2*$	2 Health	Health = 3
Flammability= 3	3 Flammability	Flammability = 2 2
Reactivity = 1	1 Reactivity	Instability = 1 3×1
	OProtective Equipment	Special =

*additional chronic hazards present

3. Composition / Information on Ingredients

NT.		ume Wt%	CAS No.	Chemical
No	Chemical Name			Formula
1	Ethanol	80-90	64-17-5	CH3CH2OH
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

MINCIKI Safety Data Sheets

Components	hazardous by OSHA.
(29 CFR 1910. 1200)	

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	\therefore 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	: Treat symptomatically and supportively.
Medical Attention and	
Special Treatment	
Needed, If Needed	

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).	



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 : Store 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.



8. Exposure Controls / Personal Protection

Exposure Limit Values

No	Chemical Name		TWA/ TLV
1 Ethanol	ACGIH	1000ppm TWA , 1900mg/m3 TWA	
	Ethanol	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.	
Respiratory	: Wear gas masks for organic gases.	
Protection	Wear ventilation masks when working in closed area.	
	An air purifying respirator with organic vapor cartridge or canister	
<u>6</u>	may be permissible under certain circumstances where air-borne	
Vapor Respirator	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.	
W		

: Wear coverall, chemical goggles and face shield when handling.



Gloves

Eye Protection

Mimciki Safety Data Sheets



: 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.	



11. Toxicological Information

Safety Data Sheets

Acute Toxicity : Ethanol Oral LD50 Rat; 9000mg/kg Inhalation LC50 Rat; 20000ppm/10h : Ethanol Eye Irritation 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)



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		



Identification Number	: UN1170	
Packing Group (PG)	: 11	
Label(s) Required	: 3	
Sea Transport (IMDG)		
Class	: 3	
Packing Group (PG)	: 11	
UN Number	: 1170	
Proper Shipping Name	: Ethanol, mixture	
Marine Pollutant	: No	
Air Transport (ICAO/IATA)		
Class	: 3	
Packing Group(PG)	: 11	
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.



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 does not relate to use in combination with any other material or process.

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