



Safety Data Sheets

Product Name: UV Primer GM-1
SDS No. 037-O011929
First issue: 2017/03/08
Revised: 2025/01/21

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

UV Primer GM-1

Product Description

SPC-0541

Product Use

Primer for use in UV cure ink for ink jet printer

Restrictions on Use

None known.

Manufacturer Information

Mimaki Engineering Co., Ltd

2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 Japan

Phone: +81-268-64-2413

Importer / Distributor Information

MIMAKI AUSTRALIA PTY LTD.

Unit 14, 38-46 South Street, Rydalmere, NSW 2116, Australia

Phone: +61-2-8036-4500

Emergency telephone number

+61 2 8014 4558 (within Australia only)

18000 74234 (within Australia only)

+65 3158 1074

Section 2 - HAZARDS IDENTIFICATION

Classified to Globally Harmonised System of Classification and Labelling of Chemicals, Third revised edition, published by the United Nations as modified under Schedule 6 of the Work Health and Safety Regulation.

GHS Classification

Flammable Liquids - Category 2

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 2A

Respiratory Sensitization - Category 1

Skin Sensitization - Category 1A

Specific Target Organ Toxicity - Single Exposure - Category 3

Specific Target Organ Toxicity - Repeated Exposure - Category 1 (liver)

Specific Target Organ Toxicity - Repeated Exposure - Category 2 (nervous system)

GHS Label Elements**Symbol(s)****Signal Word**

Danger

Hazard Statement(s)



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Highly flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
May cause respiratory irritation. May cause drowsiness or dizziness.
Causes damage to organs through prolonged or repeated exposure.
May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement(s)

Prevention

Keep container tightly closed.
Keep away from heat/sparks/open flame/hot surfaces - No smoking.
Ground/Bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Take precautionary measures against static discharge.
Use only non-sparking tools.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Do not eat, drink or smoke when using this product.
In case of inadequate ventilation wear respiratory protection.

Response

In case of fire: Use appropriate media for extinction.
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
Call a POISON CENTER or doctor/physician if you feel unwell.

Storage

Store in a well-ventilated place. Keep container tightly closed.
Keep cool.
Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other Hazards Which Do Not Result in Classification

None known.

Main Symptoms and Emergency Overview

Causes skin irritation. Causes serious eye irritation. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS



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CAS	Component Name	Percent
64-17-5	Ethanol	80-90
64-19-7	Acetic acid	<1
4369-14-6	2-Propenoic acid, 3-(trimethoxysilyl)propyl ester	<1
Not available	Other	10-20

Section 4 - FIRST AID MEASURES

Inhalation

Remove person to fresh air and keep comfortable for breathing. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical advice/attention.

Skin

Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

If swallowed, do NOT induce vomiting. Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

Most Important Symptoms/Effects

Symptoms: Immediate

Eye irritation, skin irritation, respiratory tract irritation, central nervous system depression, allergic reactions, asthma.

Symptoms: Delayed

Liver damage, nervous system damage, allergic reactions, asthma.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Small fires: Use alcohol resistant foam, regular dry chemical, carbon dioxide, and/or water spray. Large fires: Use alcohol-resistant foam or flood with fine water spray.

Unsuitable Extinguishing Media

Do not use high-pressure water streams.

Special Hazards Arising from the Chemical

Highly flammable liquid and vapor. Vapors or gases may ignite at distant ignition sources and flash back. Irritating fumes and gases may be released upon thermal processing or during combustion.

Hazardous Combustion Products

Oxides of carbon.

Special Protective Equipment and Precautions for Firefighters

Wear full protective firefighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.

Fire Fighting Measures



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Move container from fire area if it can be done without risk. Do not scatter spilled material with high-pressure water streams. Cool containers with water spray until well after the fire is out. Do not attempt to extinguish fire unless flow of material can be stopped first. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.

Hazchem/Emergency Action Code
2Z

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8. Keep unnecessary people away, isolate hazard area and deny entry. Eliminate all ignition sources if safe to do so. Do not touch or walk through spilled material.

Environmental Precautions

Avoid release to the environment. Prevent entry into waterways, sewers, basements, or confined areas.

Methods and Materials for Containment and Cleaning Up

Eliminate all ignition sources if safe to do so. Stop leak if possible without personal risk. Reduce vapors with water spray. Small spills: Absorb spill with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Large spills: Dike for later disposal. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Keep away from heat/sparks/open flame/hot surfaces - No smoking. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Do not breathe vapor or mist. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin or clothing. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place. Keep container tightly closed.

Keep cool.

Store locked up.

Store and handle in accordance with all current regulations and standards. Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Grounding and bonding required. Keep separated from incompatible substances.

Incompatible Materials

Acids, bases, combustible materials, halo carbons, halogens, metal oxides, metal salts, metals, oxidizing materials, peroxides.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Ethanol	64-17-5
Safe Work Australia.	1000 ppm TWA ; 1880 mg/m ³ TWA
ACGIH:	1000 ppm STEL
Acetic acid	64-19-7



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Safe Work Australia.	10 ppm TWA ; 25 mg/m3 TWA
	15 ppm STEL ; 37 mg/m3 STEL
ACGIH:	10 ppm TWA
	15 ppm STEL

EU - Occupational Exposure (98/24/EC) - Binding Biological Limit Values and Health Surveillance Measures
There are no biological limit values for any of this product's components.

Engineering Controls

Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear splash resistant safety goggles with a faceshield. Provide emergency eye wash supplies in the immediate work area.

Skin Protection

Wear chemical resistant clothing to prevent skin contact.

Respiratory Protection

Consult with a health and safety professional for specific respirators appropriate for your use.

Glove Recommendations

Wear appropriate chemical resistant gloves.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless transparent liquid	Physical State	liquid
Odor	irritating odor	Color	Colorless
Odor Threshold	Not available	pH	3 - 5
Melting Point	Not available	Boiling Point	77 °C
Boiling Point Range	Not available	Freezing point	Not available
Evaporation Rate	Not available	Flammability (solid, gas)	Not available
Autoignition Temperature	>=439 °C (ethanol)	Flash Point	18 °C [Tag Closed Cup]
Lower Explosive Limit	3.3 % (ethanol)	Decomposition temperature	Not available
Upper Explosive Limit	19 % (ethanol)	Vapor Pressure	5880 Pa (20°C) (ethanol)
Vapor Density (air=1)	1.6 (ethanol)	Specific Gravity (water=1)	Not available
Water Solubility	soluble	Partition coefficient: n-	0.31 (ethanol)



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		octanol/water	
Viscosity	Not available	Solubility (Other)	See below
Density	0.789 g/cm ³ at 20 °C (ethanol)	Physical Form	liquid
Molecular Weight	Not available		

Solvent Solubility

Soluble

Alcohol, ether

Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable under normal conditions of use.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat.

Avoid contact with incompatible materials.

Incompatible Materials

Acids, bases, combustible materials, halo carbons, halogens, metal oxides, metal salts, metals, oxidizing materials, peroxides.

Hazardous decomposition products

Oxides of carbon.

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

Irritation, difficulty breathing, vomiting, unconsciousness, loss of coordination, headache, drowsiness, dizziness, nausea.

Skin Contact

Irritation, allergic skin reaction.

Eye Contact

Eye irritation

Ingestion

Irritation, nausea, vomiting, drowsiness, dizziness, changes in body temperature, changes in blood pressure, irregular heartbeat, disorientation, mood swings, loss of coordination, diarrhea, loss of appetite.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Ethanol (64-17-5)

Oral LD50 Rat 7060 mg/kg

Inhalation LC50 Rat 124.7 mg/L 4 h

Acetic acid (64-19-7)



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Oral LD50 Rat 3310 mg/kg
Dermal LD50 Rabbit 1060 mg/kg
Inhalation LC50 Rat 11.4 mg/L 4 h

2-Propenoic acid, 3-(trimethoxysilyl)propyl ester (4369-14-6)

Oral LD50 Rat 1 mL/kg

Product Toxicity Data

Acute Toxicity Estimate

Dermal	> 2000 mg/kg
Inhalation - Vapor	> 20 mg/L
Oral	> 2000 mg/kg

Immediate Effects

Eye irritation, skin irritation, respiratory tract irritation, central nervous system depression, allergic reactions, asthma.

Delayed Effects

Liver damage, nervous system damage, allergic reactions, asthma.

Irritation/Corrosivity Data

Eye irritation, skin irritation, respiratory tract irritation.

Respiratory Sensitization

May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

Dermal Sensitization

May cause allergic skin reaction.

Component Carcinogenicity

Ethanol	64-17-5
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
IARC:	Monograph 100E [2012] (in alcoholic beverages); Monograph 96 [2010] (in alcoholic beverages) (Group 1 (carcinogenic to humans))
DFG:	Category 5 (low carcinogenic potency)
OSHA:	Present

Germ Cell Mutagenicity

No information available for the product.

Reproductive Toxicity

No information available for the product.

Specific Target Organ Toxicity - Single Exposure

Central nervous system, respiratory tract.

Specific Target Organ Toxicity - Repeated Exposure

Liver, nervous system.

Aspiration hazard

Not expected to be an aspiration hazard.

Medical Conditions Aggravated by Exposure

No information available for the product.

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity



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Ethanol	64-17-5
Fish:	LC50 96 h Oncorhynchus mykiss 12 - 16 mL/L [static]; LC50 96 h Pimephales promelas >100 mg/L [static]; LC50 96 h Pimephales promelas 13400 - 15100 mg/L [flow-through]
Invertebrate:	LC50 48 h Daphnia magna 9268 - 14221 mg/L IUCLID ; EC50 48 h Daphnia magna 2 mg/L [Static] EPA
Acetic acid	64-19-7
Fish:	LC50 96 h Pimephales promelas 79 mg/L [static]; LC50 96 h Lepomis macrochirus 75 mg/L [static]
Invertebrate:	EC50 48 h Daphnia magna 65 mg/L [Static] EPA

Persistence and Degradability

No information available for the product.

Bioaccumulative Potential

No information available for the product.

Mobility in soil

No information available for the product.

Other adverse effects

No additional information available for the product.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents/container in accordance with local/regional/national/international regulations. Empty product containers may contain product residue.

Section 14 - TRANSPORT INFORMATION

ADG Information:

Shipping Name: ETHANOL, Solution

Hazard Class: 3

UN#: UN1170

Packing Group: II

Required Label(s): 3

IATA Information:

Shipping Name: ETHANOL, Solution

Hazard Class: 3

UN#: UN1170

Packing Group: II

Required Label(s): 3

ICAO Information:

Shipping Name: ETHANOL, Solution

Hazard Class: 3

UN#: UN1170



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Packing Group: II
Required Label(s): 3

IMDG Information:

Shipping Name: ETHANOL, Solution

Hazard Class: 3

UN#: UN1170

Packing Group: II

Required Label(s): 3

Component Marine Pollutants (IMDG)

Not regulated as dangerous goods.

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Acetic acid	64-19-7
IBC Code:	Category Z

Hazchem/Emergency Action Code
2Z

Section 15 - REGULATORY INFORMATION

Australia Regulations

Work Health and Safety Regulations - Prohibited Carcinogens

No component(s) are listed on the Prohibited Carcinogens list.

Work Health and Safety Regulations - Restricted Carcinogens

No component(s) are listed on the Restricted Carcinogens list.

Work Health and Safety Regulations - Restricted Hazardous Chemicals

No component(s) are listed on the Restricted Hazardous Chemicals list:

Australia Work Health and Safety Regulations - Hazardous Chemicals Requiring Health Monitoring

None of this product's components are on the list.

Component Analysis - Inventory

Ethanol (64-17-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes

Acetic acid (64-19-7)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes

2-Propenoic acid, 3-(trimethoxysilyl)propyl ester (4369-14-6)



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US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	No	ELN	No	Yes	Yes	No	No	Yes	No	Yes	No	No	Yes

Other (Not available)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
No	No	No	No	No	No	No	No	No	No	No	No	No	No

Section 16 - OTHER INFORMATION

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CFR - Code of Federal Regulations (US); CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) , KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; NDSL - Non-Domestic Substance List (Canada); NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL - Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); WHMIS - Workplace Hazardous Materials Information System (Canada).

Other Information

Disclaimer:



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The information set forth in this Safety Data Sheet does not purport to be all-inclusive and should be used only as a guide. While the information and recommendations set forth herein are believed to be accurate, the company makes no warranty regarding such information and recommendations and disclaims all liability from reliance thereon.