

1. Identification of the substance/preparation and company/undertaking.**TRADE NAME:** OLO marker**INK NAME:** OLO-1**Color:** 128colors**Relevant identified uses of the substance or mixture and uses advised against**

Alcohol based dye ink.

Manufacturer/Supplier

TAISEI CO.,LTD.

986-1,2-CHOME,YASHIO CITY,SAITAMA PREF.340-0811,JAPAN

Tel: (81) 48-996-9503

Fax: (81) 48-997-1245

Information department: (81) 48-996-9503**Emergency telephone number:** (81) 48-996-9503**2. Hazards identification.****Classification of the substance or mixture**

Flam. Liq. 2 STOT RE 1

Eye Damage 1 Aquatic Acute 3

RePr tox 1 Aquatic Chronic 3

STOT SE 1

Hazard pictgrams

GHS02 Flame

GHS07 Exclamation Mark

GHS08 Health Hazard

Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H360 May damage fertility or the unborn child.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

H402 Harmful to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions 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 dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

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

P273 Avoid release to the environment.

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

P314 Get medical advice/attention if you feel unwell.

P321 Specific treatment.

P308+311 IF exposed or concerned: Call a POISON CENTER/doctor.

P308+313 IF exposed or concerned: Get medical advice/attention.

P337+313 If eye irritation persists: Get medical advice/attention.

P370+378 In case of fire: Use suitable media to extinguish.

P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P403+235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to send licensed recycler or licensed collector of scrap items in accordance with local/regional/national/international regulation.

3. Composition/information on ingredients.

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Chemical name	Range %	Cas	EINECS	GHS Symbols
Methoxy Propanol	0-85	107-98-2	203-539-1	GHS02, GHS07
Ethyl Alcohol	0-90	64-17-5	200-578-6	GHS02, GHS07, GHS08
Isopropyl Alcohol	0-15	67-63-0	200-666-7	GHS02, GHS07, GHS08
Dyes	0-15	-	-	-
Additives	0-15	-	-	-

SVHC

This product does not intentionally contain any Substance of Very High Concern (SVHC) on the European Chemicals Agency (ECHA) candidate list. Analysis There is no data.

4. First Aid measure.

Description of first aid measures

After Inhalation Remove from exposure, rest and keep warm. In severe cases, seek medical attention.

After Skin Contact Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. If irritation persists seek medical attention.

After Eye Contact Irrigate thoroughly with water for at least 10 minutes. Obtain medical attention.

After Ingestion Wash out mouth with water. Do not induce vomiting. Seek immediate medical attention.

After Swallowing Seek immediate medical advice.

Information for doctor

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5. Fire fighting measures.

Extinguishing media

Suitable Extinguishers Dry chemical, Foam or Carbon dioxide.

Unsuitable Extinguishers Water jet.

Hazardous Combustion Products CO, CO₂, Smoke.

Special Equipment for Fire Fighting Self contained breathing apparatus.

6. Accidental Release measures.

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Keep away from ignition sources.

Environmental precautions: Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents.

Wipe off with dust cloth and transfer into suitable drum or can. Hold for waste disposal.

Wash spill site with plenty of water.

Reference to other sections

See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

7. Handling & Storage.**Handling****Precautions for safe handling**

Store in cool, dry place in tightly closed receptacles.
 Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires

Keep ignition sources away – Do not smoke.
 Protect against electrostatic charges.

Conditions for safe storage, including any incompatibilities Storage

Requirements to be met by storerooms and receptacles: Store in a cool location.

Further information about storage conditions

Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.

Specific end use(s) No further relevant information available.

8. Exposure Controls/personal protection.

Additional information about design of technical systems: No further data; see item 7.

Protective Measures

Respiratory	Wear self contained breathing apparatus.
Hand	PVC or butyl rubber gloves.
Eye	Safety goggles.
Skin	Overalls and boots.
Hygiene Measures	Always wash thoroughly after handling chemicals.

Control parameters

CAS 107-98-2 Methoxy Propanol

ACGIH 150ppm(STEL)
 100ppm(TWA)

CAS 64-17-5 Ethyl Alcohol

ACGIH 1880mg/m³ 1000ppm (TWA)

CAS 67-63-0 Isopropyl Alcohol

ACGIH 200ppm(skin) (TLV-TWA)
 400ppm(skin) (TLV-STEL)

Additional information: PEL = Permissible Exposure Limit (OSHA)
 TLV= Threshold Limit Value (ACGIH)
 OSHA= Occupational Safety and Health Administration
 ACGIH= American Conference of Governmental Industrial Hygienists

9. Physical & Chemical Properties.**Information on basic physical and chemical properties****General Information**

Appearance	Liquid
Odor	Slightly
Boiling Point/range *	78.5°C
Flash Point *	13°C
Auto-ignition temperature *	n.a.
Explosive limits *	n.a.
Vapor Pressure *	n.d.
Relative density	0.79–0.95

* Data of Solvent Ethyl Alcohol which is main composed .

10. Stability & Reactivity.

Stability	Stable under normal conditions.
Known Hazardous reactions	None
Conditions to avoid	Heat, high temperature and fire sources.
Materials to avoid	Oxidizing agents.
Hazardous decomposition products	CO, CO ₂

11. Toxicological Information.**Information on toxicological effects Acute toxicity**

Low acute oral toxicity, however ingestion may cause systemic effects such as damage liver and kidneys which may become apparent later. High vapor concentrations are irritating to mucous membranes and the respiratory tract. Slight to moderate eye and skin irritant. No reported evidence of carcinogenic, mutagenic or adverse reproductive effects.

12. Ecological Information.**Toxicity**

Aquatic toxicity: No further relevant information available.

Additional ecological information: Ecological data are not available.

General notes

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

13. Disposal considerations.**Waste treatment methods****Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

Uncleaned packagings

Recommendation: Disposal must be made according to official regulations.

14. Transport Information.

UN number UN3175-SOLIDS CONTAINING FLAMMABLE LIQUID n.o.s
 Primary Hazard Not applicable due to special provision SP216
 Packing Group Not applicable due to special provision SP216
 Class/Item No. Not applicable due to special provision SP216

15. Regulatory Information.

Safety, health and environmental regulations/legislation specific for the substance or mixture

USA The following information relates to product regulation specific to the USA.

California Proposition 65

None of the ingredients is listed.

Use of this material may be governed by the following regulations

16. Other Information.

This material is usually used for: Marking pen ink.
 It must not be used for: Avoid high temperature.

Legal Disclaimer

The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specification of the product. The user must satisfy himself that the product is entirely suitable for his purpose.

Not applicable: n.a.

Not determined: n.d.

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