



SDS list

Revision Date: April 1, 2026
Issued Date: December 13, 2016

Identification of the company

Product identifier

Product Name (Chemical Name, Trade Name, etc.) Pen

Details of the supplier of the SDS list

Manufacture:

Name Yokogawa Electric Corporation

Address 2-9-32 Nakacho, Musashino-shi, Tokyo, 180-8750 Japan

Phone 81-422-52-5555

Ink for Pen and ribbon cassette as the chart recorder's accessories includes chemical substances specified in Japanese domestic law 'Industrial Safety and Health Act'. Please read safety information in the safety data sheet (next page) of parts below for your safety and appropriate use.

Item	Product Name in SDS	Note
B9902AM	TM510R	Felt pen: red
B9902AN	TM510G	Felt pen: Green
B9902AP	TM510B	Felt pen: Blue
B9902AQ	TM510RP	Felt pen: Violet

The information herein is only provision of information, and it does not represent a guarantee the properties of the product.

SAFETY DATA SHEET

Created Date

11-Jan-2024

Section1 Identification of the Substance / Mixture and of the Company / Undertaking

1-1	Product Identifier Product name / Ink name	Product name : TM510R / : TM510G / : TM510B / : TM510RP / : TM510BN / : TM510PB / : TM510-OR / : TM510YG / : TM510PK / : TM510Y /	Ink name TM510R TM510G TM510B TM510RP TM510BN TM510PB TM510-OR TM510YG TM510PK TM510Y	Color Red Green Blue Red-purple Brown Pearl-blue Orange Yellow-green Pink Yellow
1-2	Relevant Identified used of the substance or mixture and uses advised against Identifier uses	: Liquid mixture		
1-3	Detail of the supplier of the safety data sheet Manufacture Address TEL FAX	: Right Co,Ltd : No12 Nishimizue 4 Edogawaku Tokyo 134-8642 Japan : +81-3-3653-4320 : +81-3-3653-8781		
1-4	Emergency phone number TEL	: +81-3-3653-4320		

Section2 Hazards identification

2.1. Classification of the substance or mixture
Classification in accordance with Regulation (EC) No 1272/2008:
: No information

2.2. Label elements

Pictogram : No information

Signal word : No information

Hazard Statements : No information

Precautionary Statements

[Prevention] : P264: Wash hands thoroughly after handling.
P270: Do no eat, drink or smoke when using this product.

[Emergency response] : P330: Rinse mouth.
: P301+P312: IF SWALLOWED: Call a POISON CENTER/ doctor
: P302+P352: IF ON SKIN: Wash with plenty of water
: P332+P313: IF skin irritation occurs: Get medical advice/attention.
: P362+P364: Take off contaminated clothing and wash it before reuse.
: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
: P337+P313: If eye irritation persists get medical advice/attention.
: P308+P311: IF exposed or concerned: Call a POISON CENTER/doctor.

[Storage] : P403+P235: Store in a well-ventilated place. Keep cool.

2.3. Other hazards : No information

Section3 Composition/Information on ingredients

3-1 Substances : Not Applicable

3-2 Mixture

Information on ingredients

Chemical name	CAS No.	EC No.	Index No.	REACH Registration No.*	%Concentration	Classification**
Dye	Private	-	-	-	1.0~10.0	-
Glycerine	56-81-5	200-289-5	-	-	50.0~70.0	-
Preservative	Private	-	-	-	<1.0	-
Water	-	-	-	-	20.0~40.0	-

* Registration numbers of ingredients which shall be in compliance with Regulation (EC) No 1907/2006 will be filled in later.

** Full texts of relevant hazard statements and risk phrases can be seen in SECTION 16 of this SDS.

Section4 First aid measure

4.1. Description of first aid measures

IF INHALED : If you feel unwell, get medical advice/ attention immediately and at rest.
: If symptoms continue, call a doctor/physician.

IF ON SKIN : Rinse with plenty of water.
: If symptoms continue, call a doctor/physician.

IF IN EYES : Immediately rinse cautiously with water for 15 ~ 20 minutes.
: Remove contact lenses, if present and easy to do. Continue rinsing.
: If symptoms continue, call a doctor/physician.

IF SWALLOWED : Rinse mouth. Immediately get medical advice/attention.

- 4.2. Most important symptoms and effects, both acute and delayed
- : Causes skin irritation.
 - : Causes serious eye damage.
 - : May cause respiratory irritation.
 - : May cause drowsiness or dizziness.
 - : Suspected of damaging fertility or the unborn child.
 - : Causes damage to central nervous system, blood system, kidneys.

- 4.3. Indication of any immediate medical attention and special treatment needed
- : No information

Section5 Firefighting measures

- 5.1. Extinguishing media
- Suitable extinguishing media : Use water mist, dry chemical powder, fire foam or carbon dioxide.
 - Unsuitable extinguishing media : Applying direct water may be dangerous because fire may expand to surroundings.
- 5.2. Special hazards arising from the substance or mixture
- : In case of fire, toxic decomposition products may be generated.
- 5.3. Advice for firefighters
- : Cut off any ignition sources and extinguish with an appropriate agent.
 - : Cool the surrounding tank and the buildings with direct water jet to avoid risk of fire spreading.
 - : Take action from windward.
 - : Keep out except responsible personnel.
 - : Move container to a safe area if it can be done without risk.

Section6 Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
- For non-emergency personnel : Wear suitable protective equipment (see Section 8) e.g., safety gloves, protective mask and/or protective glasses to prevent exposure.
 - For emergency responders : Keep out except responsible personnel.
: Wear suitable protective equipment described in "SECTION 8: Exposure controls/ personal protection".
- 6.2. Environmental precautions
- : Avoid release into the environment because product may cause local effects.
- 6.3. Methods and material for containment and cleaning up
- : Stop leak if you can do it without risk.
 - : In case of small amounts, wipe off spilled material with waste or wiping cloth and collect it in an adequate waste container.
 - : If case of large amounts, prevent leakage and enclose by embankment.
 - : Do not eat or drink near handling and storage locations.
 - : Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).
 - : Prevent to flowing into drains, sewers, basements or closed areas.
- 6.4. Reference to other sections
- : Refer to "SECTION 8: Exposure controls/personal protection" and "SECTION 13: Disposal considerations" as appropriate.

Section7 Handling and storage

- 7.1. Precautions for safe handling
- Protective measures : Install appropriate equipment and wear suitable protective apparatus described in "SECTION 8: Exposure controls/ personal protection".
: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
: Ground/bond container and receiving equipment.
: Use explosion-proof electrical/ventilating/lighting equipment.
: Use only non-sparking tools.
: Take precautionary measures against static discharge.
: Avoid above 40°C when handling this product.
 - Advice on general occupational hygiene : Wash hands thoroughly after handling.
: Do not eat, drink or smoke when using this product.
: Wash contaminated clothing before reuse.
- 7.2. Conditions for safe storage, including any incompatibilities
- Technical measures : Install appropriate equipment and wear suitable protective apparatus described in "SECTION 8: Exposure controls/ personal protection".
 - Incompatible materials : Oxidizing agents, reducing agents
 - Conditions for safe storage : Avoid sunlight. Store in a cool place.
: Avoid high-temperature materials.
 - Packing material : Use a sealed container without damage or leakage.
- 7.3. Specific end use(s)
- : Measuring device, recording material

Section8 Exposure control / personal protection

- 8.1. Control parameters
- Acceptable concentration (exposure limit, biological exposure index)
: No information
- 8.2. Exposure controls
- Appropriate engineering controls : Shower and eye washer should be available in the work area.
Under high temperature or in case of mist generation, use ventilation.
 - Personal protective equipment
 - Respiratory protection : Wear appropriate protective mask or air aspirator as required.
 - Hand protection : If hand contact is possible, wear protective gloves.
 - Eye protection : Wear safety glasses or goggles if in eyes.
 - Skin and body protection : Wear protective clothing and apron if necessary.

Section9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Odour :	Odour
Odour threshold :	No information
pH :	4.0~8.0
Melting point/freezing point :	No information
Initial boiling point and boiling range :	No information
Flash point :	No information
Evaporation rate :	No information
Flammability (solid, gas) :	No information
Upper/lower flammability or explosive limits :	No information
Vapour pressure :	No information
Vapour density :	No information
Relative density :	1.05~1.20
Solubility (ies) :	Soluble in water.
Partition coefficient: n-octanol/water :	No information
Auto-ignition temperature :	No information
Decomposition temperature :	No information
Viscosity :	No information
Explosive properties :	No information
Oxidising properties :	No information

9.2. Other information : No information

Section10 Stability and reactivity

- 10.1. Reactivity : Stable under normal handling condition.
- 10.2. Chemical stability : Stable under normal handling condition.
- 10.3. Possibility of hazardous reactions : No hazardous reaction expected under normal handling.
- 10.4. Condition to avoid : Avoid sunlight. Store in a cool place.
Avoid above 40°C when handling this product.
- 10.5. Incompatible materials : Oxidizing agents, reducing agents
- 10.6. Hazardous decomposition products : In case of fire, toxic decomposition products may be generated.

Section11 Toxicological information

11.1. Information on toxicological effects

Information on product : No information

Information on ingredients

Glycerine

Acute toxicity (oral) :	Rat LD50 = 27,200 mg/kg (SIDS)
Acute toxicity (dermal) :	Not classified because the substance is used in cosmetics and external medicines and its toxicity is low.
Skin corrosive / irritant :	Rat 500mg/24hours : Mild
Serious eye damage/irritation :	Rat 126mg/24hours : Mild
Carcinogenicity :	No information
Other toxicological information :	No information

Section12 Ecological information

- 12.1. Toxicity: Information on product : No information
- 12.2. Persistence and degradability: Information on product : No information
- 12.3. Bioaccumulative potential: Information on product : No information
- 12.4. Mobility in soil: Information on product : No information
Information on ingredients : No information
- 12.5. Results of PBT and vPvB assessment: : No information
- 12.6. Other adverse effects: : No information

Section13 Disposal considerations

- 13.1. Waste treatment methods
- : Dispose of waste in accordance with applicable local, regional and international regulations and standards. When disposing, consult to a certificated waste trader or local offices if they deal with the waste.
 - Used container should be recycled after cleaning or dispose of in compliance with related laws and local regulations.
 - Contents should be removed completely when dispose of empty containers.

Section14 Transport information

- 14.1. UN number : No information available
- 14.2. UN proper shipping name : No information available
:
- 14.3. Transport hazard class(es) : No information available
- 14.4. Packing group : No information available
- 14.5. Environmental hazards : Not applicable
- 14.6. Special precautions for user : Keep bottle closed with cap,(Do not leak ink)
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and IBC code : Not applicable

Section15 Regulation information

- 15.1. Safety, health and environmental regulations/ legislation specific for the substance or mixture
- : The product and its ingredients are not regulated by specific provisions related to protection of human health or the environment at EU level, e.g. not considered as SVHCs or POPs.
- 15.2. Chemical safety assessment : Not conducted

Section16 Other information

Update history: Date of issue : 21-Dec-2023

- References:
- : ACGIH, American Conference of Governmental Industrial Hygienists (2019) TLVs and BEIs.
 - : Relevant hazard statements of which do not appear elsewhere in this SDS
 - : H302: Harmful if swallowed.
 - : H319: Causes serious eye irritation.
 - : H332: Harmful if inhaled.

- Abbreviations
- : PBT: Persistent, Bioaccumulative and Toxic substance
 - : POPs: Persistent Organic Pollutants
 - : STOT: Specific Target Organ Toxicity
 - : SVHC: Substances of Very High Concern
 - : vPvB: Very Persistent and Very Bioaccumulative

- [Disclaimer]
- : This SDS has been prepared based on the best available information however, it may not be sufficient in some cases. It is user's responsibility to modify or update any contents in this SDS regarding information on hazardous properties and/or instruction for safe handling of the product when they become available. Precautionary measures in this SDS are only applicable for normal handling conditions and it is necessary to take appropriate additional measures to ensure safe handling which depend on your specific use conditions or situations.