

Safety Data Sheet

Version OSHA-1.0
 Date of issue : 2021-11-15
 Revision Date :

1. Identification of the mixture and of the company

1.1- Product identifier

Product name : Infilled ink about following items

• **Mildliner Highlighter** (Mild Blue, Mild Blue Green, Mild Yellow, Mild Orange, Mild Pink, Mild Red, Mild Violet, Mild Gray, Mild Dark Blue, Mild Green, Mild Brown, Mild Vermilion, Mild Gold, Mild Smoke Blue, Mild Citrus Green, Mild Magenta, Mild Marigold, Mild Lemon Yellow, Mild Cyan, Mild Coral Pink, Mild Lavender, Mild Apricot)

• **Mildliner Brush Pen** (Mild Blue, Mild Blue Green, Mild Yellow, Mild Orange, Mild Pink, Mild Red, Mild Violet, Mild Gray, Mild Dark Blue, Mild Green, Mild Brown, Mild Vermilion, Mild Gold, Mild Smoke Blue, Mild Citrus Green, Mild Magenta, Mild Marigold, Mild Lemon Yellow, Mild Cyan, Mild Coral Pink, Mild Lavender, Mild Apricot)

1.2 - Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/mixture : Ink for writing implement
- Recommended restrictions on use : No information available
- Uses Advised Against : No information available

1.3 - Details of the supplier of the SDS

• Manufacture : ZEBRA CO., LTD.
 2-9 Higashi-gokencho Shinjuku-ku Tokyo JAPAN
 TEL : +81-3-3268-1193
 FAX : +81-3-3268-1197

1.4 - Emergency telephone number

• Manufacture : +81-3-3268-1193
 This phone number is available only during office hours: 9 a.m. to half past 5 p.m.
 (Japan time)

2. Hazards identification

Classification of the chemical in accordance with paragraph (d) of § 1910.1200

2.1 Classification of the substance or mixture

Physical hazards

| | |
|-----------------------|----------------|
| Flammable liquids | Not classified |
| Pyrophoric liquids | Not classified |
| Self-heating mixtures | Not classified |
| Corrosive to metals | Not classified |

Health hazards

| | |
|------------------------------------|-----------------------------|
| Acute toxicity-Oral | Not classified |
| Acute toxicity-Dermal | Not classified |
| Acute toxicity-Inhalation : vapour | Classification not possible |

Unknown Acute Oral Toxicity: 31% of the mixture consists of ingredient(s) of unknown acute toxicity.
Unknown Acute Dermal Toxicity: 31% of the mixture consists of ingredient(s) of unknown acute toxicity.
Unknown Acute Inhalation : vapour Toxicity: 31% of the mixture consists of ingredient(s) of unknown acute toxicity.

| | |
|--|-----------------------------|
| Skin corrosion / irritation | Not classified |
| Serious eye damage / eye irritation | Not classified |
| Respiratory or skin sensitization | Not classified / Category 1 |
| Germ cell mutagenicity | Not classified |
| Carcinogenicity | Not classified |
| Reproductive toxicity | Category 1B |
| Specific target organ toxicity (Single exposure) | Not classified |
| Specific target organ toxicity (Repeated exposure) | Not classified |
| Aspiration hazard | Classification not possible |

Environmental hazards

| | |
|--|----------------|
| Hazardous to the aquatic environment (acute) | Category 3 |
| Hazardous to the aquatic environment (chronic) | Not classified |

Hazard(s) not otherwise classified (HNOC)

None known.

2.2 Label elements

Pictograms or Symbol

Exclamation mark

Health Hazard



Signal Word

Danger

Hazard statement

- May cause an allergic skin reaction
- May damage fertility or the unborn child
- Harmful to aquatic life

Precautionary Statements

Prevention

- Avoid breathing vapours
- Contaminated work clothing should not be allowed out of the workplace
- Wear protective gloves/protective clothing/eye protection/face protection
- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Avoid release to the environment

Response

- IF ON SKIN: Wash with soap and water
- If skin irritation or a rash occurs: Get medical advice/attention
- Take off contaminated clothing and wash it before reuse.
- IF exposed or concerned: Get medical advice/attention

Storage

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

Disposal

- Dispose of contents/container to in accordance with local government regulation.

3. Composition/information on ingredients

3.1 Substance : Not applicable

3.2 Mixture

Component and Amount

| Component | Amount | CAS No. |
|-----------|-----------|--------------|
| Glycerol | 15 - 25 % | 56-81-5 |
| Water | 55 - 65 % | 7732-18-5 |
| Pigments | 0 - 5 % | Trade Secret |
| Resins | 10 -15 % | Trade Secret |
| Additives | 1 - 5 % | Trade Secret |

Additional information

The specific chemical identify and exact percentages of composition of the mixture has been withheld as a Trade Secrets in accordance with the provisions of paragraph (i) of § 1910.1200 of 29 CFR1910.1200 .

4. First-aid measures

4.1 Description of First-aid measures

After inhalation:

- Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell

After skin contact:

- Call a POISON CENTER or doctor/physician if you feel unwell
- If skin irritation occurs: Get medical advice/attention
- If skin irritation occurs: Get medical advice/attention
- IF ON SKIN: Wash with soap and water
- If skin irritation or a rash occurs: Get medical advice/attention
- Take off contaminated clothing and wash it before reuse.

After eye contact:

- IF IN EYES: Rinse continuously with water for several minutes.
 Remove contact lenses if present and easy to do . Continue rinsing

•If eye irritation persists : Get medical advice/attention

After ingestion:

•Call a POISON CENTER or doctor/physician if you feel unwell

Protection of the person who takes first aid

Nothing in particular.

4.2 Most important symptoms and effects, both acute and delayed

No significant reaction of the human body to this product known.

4.3 Indication of any immediate medical attention and special treatment needed

There is no specific and immediate treatment, but should consult a doctor.

5. Fire-fighting measures

5.1 Suitable Extinguishing media

Carbon dioxide, dry chemical powder, water fog, foam

5.2 Special hazards arising from the substance or mixture

Prohibition extinguishing media for safety reason

Water spray (straight)

5.3 Advice for firefighters

Specific hazards

This product is not combustible. But evaporated residue is combustible .

Specific fire fighting procedures

If safe to do so, move undamaged containers from the fire area.

If can't move the container , cool containers and surrounding with spray water

Cool containers with large quantities of water until well after extinguished the fire.

Special protective equipment for fire-fighters

Fire-fighting should be performed from the windward side.

Respiratory protection, and other suitable protective equipment

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

The pollution area should be established as off limits without concerned persons.

Protective equipment and emergency measure

Do not touch the leakage or its damaged container without suitable protection.

Do not walk through the leakage.

Keep sufficient ventilation if the area is indoor.

Remove ignition sources.

6.2 Environmental precautions

Keep away from drains, and prevent from releasing to the environment.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up

Use non-flammable absorbent materials, and put them in airtight container.

Dispose of absorbent in accordance with law.

Prevention of secondary disaster

Remove nearby ignition source and hot surface.

6.4 Reference to other sections

Refer to section 8 and 13.

7. Handling and storage

7.1 Precautions for safe handling

Technical measures

Do suitable equipment measures and use suitable protection that refer to "8. Exposure control/ personal protection".

Local exhaust ventilation and general ventilation

Use local exhaust ventilation and general ventilation that refer to "8. Exposure control/ personal protection".

Caution

When handling do not use high temperature articles, spark and fire.

Handle container with care, do not make it turn over, drop, give impact and drag.

Do not breathe, contact and swallow.

Maintain air concentrations below exposure limit using exhaust ventilation.

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

Wash hand thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

Avoid contact

Refer to section 10 about stability and reactivity.

7.2 Conditions for safe storage, including incompatibilities

Storage

Incompatible materials

Refer to section 10 about stability and reactivity.

Storage condition

Store away from heat/sparks/open flames – No smoking
 Store in a well ventilated place. Keep cool and container tightly closed.
 Store locked up.

The Containers

Use the container that our company filled up when ship products

7.3 Specific end uses

Not applicable

8. Exposure control/ personal protection

8.1 .1 Control parameters

Exposure limit values

| Chemical name | OSHA Permissible Exposure Limits (PEL) | ACGIH TLV-TWA |
|---------------|--|--------------------------|
| Glycerol | 15mg/m3 (Total dust,TWA) 5mg/m3 (Respirable fraction,TWA) | 10mg/m3 (mist,TWA, 2009) |

8.2 Exposure controls

Equipment measures

Put up local exhaust ventilation. Use explosion-proof electrical/ventilating/lighting.
 Take precautionary measures against static discharge.
 Put up emergency eyewash and shower in case of storage or handling about this product.

Protection

Respiratory protection

If necessary use suitable respiratory protection.

Hand protection

Use suitable protective glove.

Eye protection

Use suitable eye protection

Skin/body protection

If necessary use suitable respiratory protection.

Hygiene measures

Do not eat ,drink or smoke when using this product.
 Wash thoroughly after handling

9. Physical and chemical properties

Appearance

Colored Liquid

Odour

Peculiar odour

Odour threshold

No data available

pH

No data available

Evaporation rate

No data available

Flammability

No data available

Melting point / Coagulating point

No data available

Boiling point

No data available

Flash point

No data available

Explosive limit UEL

No data available

Explosive limit LEL

No data available

Vapour pressure

No data available

Vapour density

No data available

Relative density

No data available

Water solubility

Soluble in water

Partition coefficient n-octanol/water

No data available

Ignition point

No data available

Decomposition point

No data available

Viscosity

No data available

Explosive properties

No data available

Oxidising properties

No data available

Other information

No data available

10. Stability and reactivity

| | |
|---|---|
| Chemical stability | This product is stable in normal condition. |
| Materials to Avoid | No data available |
| Conditions to avoid | No data available |
| Incompatible materials | No data available |
| Hazardous decomposition products | No data available |

11. Toxicological information

| | |
|--|-----------------------------|
| Acute toxicity—Oral | Not classified |
| Acute toxicity—Dermal | Not classified |
| Acute toxicity—Inhalation: vapour | Classification not possible |
| Skin corrosion / irritation | Not classified |
| Serious eye damage / eye irritation | Not classified |
| Respiratory or skin sensitization | Not classified / Category 1 |
| Germ cell mutagenicity | Not classified |
| Carcinogenicity | Not classified |
| Reproductive toxicity | Category 1B |
| Specific target organ toxicity(Singel exposure) | Not classified |
| Specific target organ toxicity(Repeated exposure) | Not classified |
| Aspiration hazard | Classification not possible |

12. Ecological information

| | |
|--|----------------------|
| Hazardous to the aquatic environment(acute) | Category 3 |
| Hazardous to the aquatic environment(chronic) | Not classified |
| Degradability | No data is available |
| Bioaccumulative potential | No data is available |
| Mobility in soil | No data is available |

13. Disposal considerations

Waste treatment methods
Waste residues
 Disposal must be made according to official regulations.
 Avoid release to the environment.
Contaminated container and packaging
 Do not flush into the sewer.
 Remove all contents when you dispose of empty containers.

14. Transport information

- 14.1 Un number
- 14.2 UN proper shipping name
- 14.3 Transport hazard class(es)
- 14.4 Packaging group

International regulation

| | |
|----------------------------------|----------------|
| IMDG (Maritime transport) | |
| UN No. | Not applicable |
| Class | - |
| Packing Group | - |
| Marine Pollutant | - |
| Shipping name | - |
| ICAO/IATA (Air transport) | |
| UN No. | Not applicable |
| Class | - |
| Packing Group | - |
| Shipping name | - |
| ADR/RID (Land transport) | |
| UN No. | Not applicable |
| Class | - |

Packing Group -
Shipping name -

14.5 Environmental hazards

Hazardous to the aquatic environment(acute) Category 3
Hazardous to the aquatic environment(chronic) Not classified

14.6 Special precautions for user

Not applicable.

Special precautions

Prevent from falling, stumbling and doing damage when the container loading.
Avoid acute vibration and friction for container.
If there are some indications of hazard in transporting like acute leak in transporting,
take emergency measures and report the accident at once to disaster management agency.
Avoid transport with foods or feeds.
Above regulations are not applied to transport of writing instruments filled with the ink.
Follow all regulation in your country.

15. Regulatory information

Follow all regulation in your country.

16. Other information

In this sheet, the contents of ingredients and the value of physical and chemical properties are not guaranteed performance.
The information contained in this sheet is based on the data available at now.
But this shall not constitute a guarantee for any specific or classification.
Please be alert to handling this product because chemicals shall have unknown hazards.
This sheet may be revised when we get new information.
The information is assumed in the case of large-scale handling on business operations.
They cannot be always applicable to general use of writing instruments.

Revision

2021/11/15 First version