

SAFETY DATA SHEET

ZIG ARTIST SKETCHING PEN (Black, SEPIA) SDS 1/7


Date: 20/05/2019

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008
(CLP) & 453/2010

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

| | |
|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| 1.1 Product identifier | |
| Product Name / Product Number | ZIG ARTIST SKETCHING PEN IR-220SP |
| CAS No. | Mixture. |
| EINECS No. | Mixture. |
| 1.2 Relevant identified uses of the substance or mixture and uses advised against | |
| Identified Use(s) | Drawing |
| Uses Advised Against | None known. |
| 1.3 Details of the supplier of the safety data sheet | |
| Company Identification | KURETAKE CO., LTD. 576 Minamikyobate-cho, 7-chome, Nara-shi, 630-8670, Japan |
| Telephone | +81- 742-50-2055 |
| Fax | +81- 742-50-2077 |
| E-Mail (competent person) | kuretake@kuretake.co.jp (Technician of Lab.) |
| 1.4 Emergency telephone number | +81-742-50-2055 [9:00 – 17:00 JST (GMT+9)]. |
| Languages spoken | Japanese |

SECTION 2: HAZARDS IDENTIFICATION

| | |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.1 Classification of the substance or mixture | |
| 2.1.1 Regulation (EC) No. 1272/2008 (CLP) | Flam. Liq. 2 STOT SE 3 Eye Dam. 1 |
| 2.2 Label elements | |
| Product Name | ZIG ARTIST SKETCHING PEN |
| Hazard Pictogram(s) |  |
| Signal Word(s) | Danger |
| Hazard Statement(s) | H225 Highly flammable liquid and vapour H336 May cause drowsiness or dizziness H318 Causes serious eye damage |
| Precautionary Statement(s) | P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/.../equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection. |

SAFETY DATA SHEET

ZIG ARTIST SKETCHING PEN (Black, SEPIA) SDS 2/7

Date: 20/05/2019
 ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008
 (CLP) & 453/2010

P303+P36 IF ON SKIN (or hair): Remove/take off immediately all
 1+P353 contaminated clothing. Rinse skin with water/shower.
 P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position
 comfortable for breathing.
 P305+P35 IF IN EYES: Rinse cautiously with water for several minutes.
 1+P338 Remove contact lenses, if present and easy to do. Continue
 rinsing.
 P310 Immediately call a POISON CENTER or doctor/physician.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P370+P378 In case of fire, use appropriate media for extinction.
 P403+P233 Store container tightly closed in well-ventilated place.
 P403+P235 Store in cool/well-ventilated place.
 P405 Store locked up.
 P501 Dispose of contents/container to...

2.3 Other hazards

None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Not applicable

3.2 Mixtures Substances in preparations / mixtures EC Classification Regulation (EC) No. 1272/2008 (CLP)

| Chemical identity of the substance | %W/W | CAS No. | EC No. | REACH Registration No. | Hazard Statement(s) |
|---------------------------------------------------------|---------|------------|-----------|------------------------|-------------------------------------------------------------|
| 1-[2-methoxy(methyl)ethoxy]propanol | 10-20 | 34590-94-8 | - | None assigned. | Not Classified. |
| 1-methoxy-2-propanol; monopropylene glycol methyl ether | 40-60 | 107-98-2 | 203-539-1 | None assigned. | Flam. Liq. 3: H226 STOT SE 3: H336 |
| ethanol; ethyl alcohol | 10-15 | 64-17-5 | 200-578-6 | None assigned. | Flam. Liq. 2: H225 |
| propan-2-ol; isopropyl alcohol; isopropanol | 0.5-1.5 | 67-63-0 | 200-661-7 | None assigned. | Flam. Liq. 2: H225 STOT SE 3: H336 Eye Irrit. 2: H319 |
| propan-1-ol; n-propanol | 1.0-1.5 | 71-23-8 | 200-746-9 | None assigned. | Flam. Liq. 2: H225 STOT SE 3: H336 Eye Dam. 1: H319 |
| Dye (Black, Blue, Yellow, Red) | 5.0-15 | - | | None assigned. | Not Classified. |

3.3 Additional Information

For full text of H/P phrases see section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation

Skin Contact

Remove the victim to the fresh air area. If feel bad, see a doctor.

Put off the all polluted clothes immediately. Clean with the proper temp. and slow flowing water for over 15 minutes. If have irritate the skin, see a doctor. Call a doctor if feel bad. Before re-use the put off clothes, clean it up and remove the pollution.

Eye Contact

Put off the contacts if possible, and continue to clean. Clean the eyes carefully for a few minutes. If the eyes get this product, clean the eye immediately and wash away completely. If the cleaning eyes not enough, it may cause irreversible eye damage.
 If irritate to the eyes continue, see a doctor.

Ingestion

Expected acute symptom and late symptom

Call a doctor, if feel bad. Rinse the mouth out. Do not have the victim vomit.
 Sialorrhea, face flash, cough, dizzy, lethargy, headache, sore throat, deliquim animi barf, vomition

4.2 Most important symptoms and effects, both acute and delayed

No data

4.3 Indication of any immediate medical attention and special treatment needed

Rescuer must wear proper protective equipment according to the situation. Symptom will appear later, so that if the patient exposed excessively, it needs medical follow progress.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media

Small fire / Carbon dioxide, dry chemical extinguishing media, water spray,

SAFETY DATA SHEET

ZIG ARTIST SKETCHING PEN (Black, SEPIA) SDS 3/7

Date: 20/05/2019

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008
(CLP) & 453/2010

Unsuitable extinguishing Media

5.2 Special hazards arising from the substance or mixture

alcoholic resistance foam.

Water spray, mist water, alcoholic resistance form.

Cylindrical pouring water.

The irritative, toxicity and corrosive gas is generated by fire. The container will be burst by heating. If it is not dangerous, move the container from the fire area.

If it is impossible to move, cool the container and around by spraying water. After extinguishing a fire, cool the container completely by large quantity of water.

5.3 Advice for fire-fighters

For fighting fire, wear compressed air open-circuit SBCA and protect equipment for chemical. Fight a fire from up wind.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

The worker must wear proper protector (refer to section 8) not to get the paint on the skin or into eyes. Do not touch the leakage material or walk into it.

Keep the proper distance in all direction as the leakage area immediately. No unauthorized entry. If leakage but not occur a fire, wear the occlusive and impervious protect wear. Stay in the wind. Move away from the low ground.

6.2 Environmental precautions

Ventilate before enter the sealed area.

Prevent from influx into the drain ditch, sewer, basement and closed area. Take notice not to affect the environment by discharge the paint into the river.

6.3 Methods and material for containment and cleaning up

Collect Neutralization: In small quantity case, absorb the leakage material by dry sand and nonflammable material or collect it in the sealed type container then dispose it. In small quantity case, collect the absorbed material by clean antistatic tools. In large quantity case, yard the leakage material by mound to prevent flow out and lead it into safety area then collect it. In large quantity case, water spray lower the steam temperature but it may not inhibit combustion at the sealed area.

Containment or Depurant and Equipment: If it is not danger, stop the leakage.

Ground all equipment which need for handle the leakage material. Use steam retard foam for lower the steam concentration.

Precaution of Second Disaster: Clear away all ignition source immediately (Do not smoking near around, forbid firework and flame).

In case large steam generating, retard it by mist spray. Call related agency and ask the help.

6.4 Reference to other sections

See Section: 8, 13

SAFETY DATA SHEET

ZIG ARTIST SKETCHING PEN (Black, SEPIA) SDS 4/7

Date: 20/05/2019
ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008
(CLP) & 453/2010

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Do the equipment measure described on the section 8 and wear protector.
Do the local exhaust ventilation and whole ventilation described on section 8.

Prevent leakage the liquid and steam as possible.

This product irritate the eyes so that care not to get it into the eyes. This product may cause sleep or vertigo, irritate the apparatus respiratorius and damage organ parts so that do not touch, inhale and swallow it. Do not fall, drop, shock or drag the container. Clean hands well after use this product.

Use this product outside or well ventilated area only. Avoid touching, refer to the section10.

Keep away from high temperature materials spark and fire, and avoid touching oxidizer and organic peroxide.

7.2 Conditions for safe storage, including any incompatibilities Storage

Keep the container airtight and stock it in well ventilated place. Stock in the fulfilled and ventilated and cool place. Keep away from oxidant. Keep away from direct sunlight and fire. The inventory location must be fire-proof construction and the floor must be impermeable to prevent permeate the basement and spill to outside. Lock up the container.

Dangerous goods if mixed: Refer to the section 10.

Container material: Use the container regulated by fire law and UN transportation law.

See Section: 1.2

7.3 Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

| Name | ACGIH (TLV) |
|---------------------------------------------------------------|-------------|
| 1-[2-methoxy(methyl)ethoxy]propanol | TWA 100ppm |
| 1-methoxy-2-propanol; monopropylene glycol methyl ether | TWA 100ppm |
| ethanol; ethyl alcohol | 1000 ppm |
| propan-2-ol; isopropyl alcohol; isopropanol | 400 ppm |
| propan-1-ol; n-propanol | 200 ppm |
| Dye (Black, Blue, Yellow, Red) | - |

8.1.2 Biological limit value

No data

8.1.3 PNECs and DNELs

No data

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Install the eye washing devices and safety shower where handle or stock this product.

8.2.2 Individual protection measures, such as personal protective equipment (PPE)

Wear proper respiratory protect equipment such as gas mask for organic gas (if high concentration, wear air-supplied respirator).

Check the protect equipment regularly with check sheet.

Wear the eye protector designated by manufacturer.

Wear the gloves designated by manufacturer.

Wear protect boots, oil resistant apron (impermeable and antistatic) and protect clothes (antistatic) designated by manufacturer.

Clean hands well after use this product.

Eye/face protection

Skin protection

8.2.3 Environmental Exposure Controls

No data

SAFETY DATA SHEET

ZIG ARTIST SKETCHING PEN (Black, SEPIA) SDS 5/7

Date: 20/05/2019
ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008
(CLP) & 453/2010

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|----------------------------------------------|-------------------|
| Appearance | liquid |
| Odour | alcoholic odor |
| Odour Threshold | No data |
| pH | No data |
| Melting Point/Freezing Point | No data |
| Initial boiling point and boiling range | No data |
| Flash Point | 18°C (closed cup) |
| Evaporation Rate | No data |
| Flammability (solid, gas) | No data |
| Upper/lower flammability or explosive limits | No data |
| Vapour pressure | No data |
| Vapour density | No data |
| Relative density | No data |
| Solubility(ies) | No data |
| Partition coefficient: n-octanol/water | No data |
| Auto-ignition temperature | No data |
| Decomposition Temperature | No data |
| Viscosity | No data |
| Explosive properties | No data |
| Oxidising properties | No data |

9.2 Other information

| | |
|-------------------------|---------|
| Specific gravity (20°C) | No data |
|-------------------------|---------|

SECTION 10: STABILITY AND REACTIVITY

| | | |
|------|------------------------------------|-------------------------------------------------------------------|
| 10.1 | Reactivity | No data |
| 10.2 | Chemical stability | Under usually storage condition, it is stable. |
| 10.3 | Possibility of hazardous reactions | No data |
| 10.4 | Conditions to avoid | No data |
| 10.5 | Incompatible materials | No data |
| 10.6 | Hazardous decomposition product(s) | Generates harmful gas such as carbon monoxide and carbon dioxide. |

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects (Substances in preparations / mixtures)

| | |
|------------------------------------------|--------------------------------------------------------------------------------------------|
| Acute toxicity | Not Classified. |
| Ingestion | Not Classified. |
| Inhalation | Not Classified. |
| Skin Contact | Not Classified. |
| Skin corrosion/irritation | Not Classified. |
| Serious eye damage/irritation | Eye Dam. 1 (n-propanol 1.0-1.5%) |
| Respiratory or skin sensitization | Not Classified. |
| Germ cell mutagenicity | Not Classified. |
| Carcinogenicity | Not Classified. |
| Reproductive toxicity | Not Classified. |
| STOT - single exposure | STOT SE 3 (1-methoxy-2-propanol 40-60%) (isopropanol 0.5-1.0%) (n-propanol 1.0-1.5%) |
| STOT - repeated exposure | Not Classified. |
| Aspiration hazard | Not Classified. |

11.2 Other information

| Name | IARC | OTHER |
|---------------------------------------------------------|------|-----------------------------------|
| 1-[2-methoxy(methyl)ethoxy]propanol | - | LD50 = 5180mg/kg (rat, oral) |
| 1-methoxy-2-propanol; monopropylene glycol methyl ether | - | LD50 > 5000mg/kg (rat, oral) |
| ethanol; ethyl alcohol | 1 | LD50 = 6200-15000mg/kg (rat oral) |
| propan-2-ol; isopropyl alcohol; isopropanol | - | LD50 = 3437mg/kg (rat oral) |
| propan-1-ol; n-propanol | - | LD50=1870mg/kg (rat oral) |
| Dye (Black, Blue, Yellow, Red) | - | - |

SAFETY DATA SHEET

ZIG ARTIST SKETCHING PEN (Black, SEPIA) SDS 6/7

Date: 20/05/2019

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008
(CLP) & 453/2010

SECTION 12: ECOLOGICAL INFORMATION

| | | |
|------|------------------------------------|-------------|
| 12.1 | Toxicity | No data |
| 12.2 | Persistence and degradability | No data |
| 12.3 | Bioaccumulative potential | No data |
| 12.4 | Mobility in soil | No data |
| 12.5 | Results of PBT and VPVB assessment | No data |
| 12.6 | Other adverse effects | None known. |

SECTION 13: DISPOSAL CONSIDERATIONS

| | | |
|------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13.1 | Waste treatment methods | Residue Waste: For dispose, follow the related regulation and standard of local governments. Ask the licensed industrial waste disposal company or local governments. For Burning: Spray the incinerator with waste liquid directly or mix with flammable solvent in small quantity to burn. Activated sludge process. |
| 13.2 | Additional Information | Polluted container and package: Clean the container and recycle or treat it in accordance with the related regulation or local governments. If dispose the container, remove the content completely. |

SECTION 14: TRANSPORT INFORMATION

| | | |
|------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14.1 | UN number | 3175 |
| 14.2 | UN proper shipping name | PRINTING INK, flammable or PRINTING INK RELATED MATERIAL |
| 14.3 | Transport hazard class(es) | 3 |
| 14.4 | Packing group | II |
| 14.5 | Environmental hazards | No data |
| 14.6 | Special precautions for user | See Section: 2 |
| 14.7 | Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| 14.8 | Additional Information | Common: Please follow the section7. Check if there are no leakage from container and take cargo without falling, dropping and damage. Land Transportation: In case of fall under the Fire Law, Industrial Safety and Health Law, Poisonous Material Control Law follow each relevant mode of transportation. Marine Transportation: Please follow the Law for Safety of Vessel. Air Transportation: Please follow the Aviation Law and regulation of ICAO. |

SECTION 15: REGULATORY INFORMATION

| | | |
|--------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15.1 | Safety, health and environmental regulations/legislation specific for the substance or mixture | Regulatory information with regard to this substance in your country or region should be examined by your own responsibility |
| 15.1.1 | EU regulations | |
| | Candidate List of substances of very high concern for Authorisation | not applicable. |
| | Authorisations and/or Restrictions On Use | Not applicable. |
| | CoRAP Substance Evaluation | Not applicable. |
| 15.1.2 | National regulations | Outline of Hazardous Material Regulation in Japan. |
| | Japan | Industrial Safety and Health Law: Notice object goods (Article 57, section 2, Enforcement regulation 18-21, appendix 9.) (Iron oxide) Fire Law: N/A Law for Safety of Vessel: N/A Aviation Law: N/A |
| 15.2 | Chemical Safety Assessment | Not applicable. |

SAFETY DATA SHEET

ZIG ARTIST SKETCHING PEN (Black, SEPIA) SDS 7/7

Date: 20/05/2019

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008
(CLP) & 453/2010

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

References:

Raw material manufacturer SDS

Table 3.1 of Annex VI to the CLP Regulation

LEGEND

| | |
|--------------|----------------------------------------------------------------------|
| TLV | Threshold Limit Value |
| DNEL | Derived No Effect Level |
| PNEC | PNEC Predicted No Effect Concentration |
| PBT | Persistent, Bioaccumulative and Toxic |
| vPvB | very Persistent and very Bio-accumulative |
| Eye Dam.1 | Eye Damage / Eye Irritation Category 1 |
| Flam. Liq. 2 | Flammable Liquid Category 2 |
| STOT SE 3 | Specific Target Organ systemic Toxicity (Single Exposure) Category 3 |
| H225 | Highly flammable liquid and vapour |
| H318 | Causes serious eye damage |
| H336 | May cause drowsiness or dizziness |

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

Disclaimers

The description content of this data sheet is based on the documentation, information and data that we can garner at the present moment so that it might be change depend on new information. And it is recommend for usual handling so that in case of special handling, use it before take safety measure that suitable for your application and usage.

The description content is information service and not certification.

Annex to the extended Safety Data Sheet (eSDS)

Not available.