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9737532 9740816 thru 9740821  
9737533 9724982  
9737534 9730408  
9735618 9735619 9735620  
SAFETY DATA SHEET  
ZIG KURECOLOR Series SDS 1/4  
DATE: 08-Feb-2010  
REVISION: 01-Dec-2017  
V#051170

## 1. PRODUCT INFORMATION

Product Name: ZIG KURECOLOR  
ZIG KURECOLOR TWIN  
ZIG KURECOLOR TWIN S  
ZIG KURECOLOR INK 25ml  
ZIG CARTOONIST KURECOLOR Fine & Brush  
ZIG KURECOLOR TWIN WS

Product Number: #KC-500  
#KC-1100  
#KC-3000  
#KCR-25  
#CNKC-2200  
#KC-3000N

Recommend Application: Ink

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## 2. HAZARDS IDENTIFICATION

GHS Classification

Physical hazards	Flammable liquids	Category 2
Health hazards	Acute toxicity (Oral)	Not Classification
	Acute toxicity (Endermatic)	Not Classification
	Acute toxicity (Inhale : Gas)	Not Classification
	Acute toxicity (Inhale : Dust, Mist)	Not Classification
	Skin corrosion / irritation	Category 3
	Serious eye damage / eye irritation	Category 2A
	Respiratory or skin sensitization	Not Classification
	Skin sensitizing property	Not Classification
	Germ cell mutagenicity	Category 1B
	Carcinogenicity	Category 2
	Reproductive Toxicity	Category 1A
Specific Target Organ / Systemic Toxicity	Single exposure	Category 1 (Kidney, Central nervous system)
		Category 3 (Respiratory tract irritation, Opiate potency)
	Repetition exposure	Category 1 (Liver)
		Category 2 (blood circulatory system, nervous system, spleen)
Environmental hazards Environment	Aspiration hazards	No data
	Acute aquatic hazard	No data
	Chronic aquatic hazard	No data
	Hazardous to the ozone layer	Out of Division

Label element

Pictogram



Signal words Danger

Hazardous Information May cause respiratory irritation or May cause drowsiness and dizziness.  
May cause genetic defects.  
Highly flammable liquid and vapour.  
Causes mild skin irritation.  
Causes serious eye irritation.  
May damage fertility or the unborn child.  
May cause damage to organs(Kidney, Central nervous system).  
Causes damage to organs(Liver) through prolonged or repeated exposure.  
May cause damage to organs(blood circulatory system, nervous system, spleen) through prolonged or repeated exposure.  
Suspected of causing cancer.

## Instruction

## 【Measure for Safety】

Do not use this product until read all safety precaution and understand it. Before use, please get the operating instruction. Keep this product away from the ignition source such as fever, spark, open flame and high temperature. - NO SMOKING  
To prevent from exposure, use personal protective equipment or ventilation. Wear protective gloves, glasses and face mask. Use this product in the well ventilated area or outside only.

## 【First Aid】

If a fire occur, fight a fire in the proper way.  
Inhalation: Remove the victim to the fresh air area and keep him quiet.  
Swallow: Do not vomit by force. See a doctor.  
Eye: Clean by water in a few minutes. Put off the contacts if possible.  
Skin: Clean by a large of water with soap.  
Skin or Hair: Put off the polluted clothes immediately.  
Exposure: See a doctor.  
If the irritate to the eyes continue, see a doctor. If feel bad, see a doctor.

## 【Storage】

Keep the container air-tight, store in the cool and well ventilated area and locked.

## 【Disposal】

For dispose the content and container, entrust to the special waste disposer authorized by the governor of prefectural and city governments.

Country / Community Information: None

## 3. COMPOSITION AND INGREDIENT INFORMATION

Single, Mixture: Mixture

Ingredient and content

Ingredient name	CAS No.	Concentration wt%
Ethyl alcohol	64-17-5	51.3-64.0
Isopropyl alcohol	67-63-0	2.9- 3.7
n-Propyl alcohol	71-23-8	5.7- 7.2
Propylene glycol mono methyl ether	107-98-2	16.8-20.3
Dipropylene glycol mono methyl ether	34590-94-8	4.2- 5.1

## 4. FIRST AID

For Inhalation

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

For Skin

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.

For Eyes

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.

For Swallow

Call a doctor, if feel bad. Rinse the mouth out. Do not have the victim vomit.

Expected acute symptom and late symptom: Sialorrhea, face flash, cough, dizzy, lethargy, headache, sore throat, deliquim animi barf, vomition

Most important sign and symptom:

Protect the person received first aid:

Rescuer must wear proper protective equipment according to the situation.

Special notandum for doctor: Symptom will appear later, so that if the patient exposed excessively, it needs medical follow progress.

## 5. FIRE-FIGHTING MEASURE

Extinguishing Media: In the initial stage of fire, use fire extinguishers or with large amount of water injection.

Great Conflagration: Hydrogen peroxide or perchloric acid or sodium peroxide or chromium oxide or nitric acid

Forbidden Extinguishing Media: Cylindrical pouring water.

Special Dangerous and Harmful Effect: 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.

Protect the Person Extinguish a Fire: For fighting fire, wear compressed air open-circuit SBCA and protect equipment for chemical. Fight a fire from up wind.



6. ACCIDENTAL RELEASE MEASURES

- Notandum for Human Body, Protective Equipment and Emergency Measure:
- 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. Ventilate before enter the sealed area.
- Notandum for Environment:
- 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.
- 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 Disester:
- 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.

7. HANDLING AND STORAGE

- Handling
- Do the equipment measure described on the section 8 and wear protector.
- Local exhaust ventilation, whole ventilation:
- Do the local exhaust ventilation and whole ventilation described on section 8. Prevent leakage the liquid and steam as possible.
- Safe handling notandum:
- 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.
- 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Install the eye washing devices and safety shower where handle or stock this product.
- Protection Equipment
- For apparatus respiratorius:
- Wear proper respiratory protect equipment such as gas mask for organic gas (if high concentration, wear air-supplied respirator).
- For hands:
- Wear the gloves designated by manufacturer.
- For eyes:
- Wear the eye protector designated by manufacturer.
- For skin and Boy:
- Wear protect boots, oil resistant apron (impermeable and antistatic) and protect clothes (antistatic) designated by manufacturer.
- Hygiene Measure
- Check the protect equipments regularly with check sheet. Clean hands well after use this product

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form	Condition (20°C)	liquid
	Odor	alcoholic odor
	Boiling point	No data
	Vapor pressure	No data
	Density (20°C)	No data
	pH (against water base)	No data
	Other	Nothing
Hazardous Information	Flash point	18°C (closed cup)
	Ignition point	No data
	Explosion limit	No data
Other Hazardous Information		Nothing

10. STABILITY AND REACTIVITY

Stability: Under usually storage condition, it is stable.  
Hazardous Reactivity: Nothing  
Avoid Condition Nothing  
Avoid Touching Nothing  
Hazardous Decomposition Product:  
Generates harmful gas such as carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Harmful ingredient and exposure limit.

Name	ACGIH (TLV)	IARC	OTHER
Ethyl alcohol	1000 ppm	1	LD50 = 6200-15000mg/kg (rat oral)
Isopropyl alcohol	400 ppm	-	LD50 = 3437mg/kg (rat oral)
n-Propyl alcohol	200 ppm	-	LD50 = 1870mg/kg (rat oral)
Propylene glycol mono methyl ether	100 ppm	-	LD50 = 5000mg/kg (rat oral)
Dipropylene glycol mono methyl ether	100 ppm	-	LD50 = 5.1g/kg (rat oral)

Other harmful information relevant to composition: No data  
Harmful information for product: No data

12. ECOLOGICAL INFORMATION

Acute Hazardous Aquatic Environment No data  
Inveteracy Hazardous Aquatic Environment No data

13. DISPOSAL CONSIDERATIONS

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.  
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.

14. TRANSPORT 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.  
UN No. 3175  
Packing group II

15. REGULATORY INFORMATION

Regulatory information with regard to this substance in your country or region should be examined by your own responsibility.

16. OTHER INFORMATION

Main cited item  
JPMA "Data Base for raw material SDS"  
JPMA "SDS Guide Book [Mixture (for paint)]" 4th version  
JPMA "SDS Guide Book [Mixture (for paint)]" 4th version-addenda version  
Solvent pocket book  
Raw material manufacturer SDS

Regarding to the description content:  
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.

N/A = Not Applicable