

# SAFETY DATA SHEET

DATE: 07-Jun-2010  
REVISION: 09-May-2018

## 1. PRODUCT INFORMATION

Product Name: ZIG PHOTO SIGNATURE  
Product Number: PS-220  
Recommend Application: InkCompany Information: Company Name: KURETAKE CO., LTD.  
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## 2. HAZARDS IDENTIFICATION

GHS Classification		
Physical hazards	Flammable liquid	Category 2
Health hazards	Acute toxicity (Oral)	Not Applicable
	Acute toxicity (Endermatic)	Out of division
	Acute toxicity (Inhale : Gas)	Not Classification
	Acute toxicity (Inhale : Dust, Mist)	Not Classification
	Skin corrosion / irritative	Category 2
	Serious eye damage / eye irritation	Category 2A
	Sensitizing property of apparatus respiratorius	Not Classification
	Skin sensitizing property	Category 1
	Generate cell mutagenicity	Category 1A
	Carcinogen	Category 2
	Reproductive effect	Category 1A
Specialy Target Organ / Systematic Toxicity	Single exposure	Category 1(Central nervous system, Liver, Kidney, systemic toxicant)
	Repetition exposure	Category 1(Central nervous system,Liver,Kidney,Systemic toxicant, Nervous system)
		Category 2(Blood system, Spleen)
Environmental hazards	Aspiration hazard	Not Classification
	Acute aquatic hazard	Out of division
	Chronic aquatic hazard	Out of division
	Hazardous to the ozone layer	Out of division

### Label element

Pictogram



Signal words

Danger

### Hazardous Information

Highly Flammable liquid and Vapor  
It is harmful, if you swallow. Cause irritate the skin. Serious irritate the eye.  
May cause an allergic skin reaction.  
It is harmful for reproductive ability or embryo.  
Suspected of causing cancer  
Suspected of causing genetic defects  
May damage fertility or the unborn child.  
Cause damage to organs(Central nervous system, Liver, Kidney, systemic toxicant)  
Cause damage to organs(Central nervous system,Liver,Kidney,Systemic toxicant,Nervous system,  
Blood system, Spleen)  
through prolonged or repeated exposure.

### Instruction

**【Measure for Safety】**

Wash hands thoroughly after handling.  
 Do not use this product until read all safety precaution and understand it. Before use, please get  
 Do not eat, drink or smoke when using this product.  
 the operating instruction. Keep this product away from the ignition source such as fever, speak,  
 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.  
 Do not inhale the mist, vapor and spray. Keep the container air tight.

**【First Aid】**

If a fire occur, fight a fire in the proper way.  
 Inhale: 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.%
Ethanol	64-17-5	8-18
Isopropanol	67-63-0	0.5-1.0
1-Propanol	71-23-8	0.7-1.8
4-methoxy-4-methyl-2-pentanone	107-70-0	8.0-12
Propylen Glycol Ethers	107-98-2	50-60

**4. FIRST AID**

For Inhale 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: Sialorrhæ, Sialorrhæa, face flash, cough, dizzy, lethargy,  
 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: Small fire / Carbon dioxide, dry chemical extinguishing media, water spray, alcoholic resistance  
 fire foam.  
 Great Conflagration: Water spray, mist water, alcoholic resistance fire form.  
 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 law ground. Ventilate before enter the sealed area.

Notandum for Environment:

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

Collect Neutralization:

In small quantity case, absorb the leakage material by dry sand and nonflammable material or collect it in the sealed type contaainer 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.

## 7. HANDLING AND STORAGE

Handling Do the equipment measure described on the section 8 and war 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 section 10. Keep away from high tempereture materials spark and fire, and avoid touching oxidizaer 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 eyewashing 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 Body: 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 oder
	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	about 18°C (closed cup)
	Ignition point	No data
	Explosion limit	No data
Other Hazardous Information		No data

**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
Ethanol	1000 ppm	1	LD50 = 6200-15000mg/kg (rat oral)
Isopropanol	400 ppm	-	LD50 = 3437mg/kg (rat oral)
1-Propanol	200 ppm	-	LD50=1870mg/kg (rat oral)
4-methoxy-4-methyl-2-pentanone	-	3	LD50=4000mg/kg (rat oral)
Propylen Glycol Ethers	100ppm	-	LD50=5113mg/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 section 7. 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 site  
 JPMA "Data Base for raw material MSDS"  
 JPMA "MSDS Guide Book [Mixture (for paint)]" 4th version  
 JPMA "MSDS Guide Book [Mixture (for paint)]" 4th version-addenda version  
 Solvent pocket book  
 Raw material manufacturer MSDS

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