



HORI METAL LEAF & POWDER CO., LTD.

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# MATERIAL SAFETY DATA SHEET

## 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product Identifiers

Product Name : Imitation Golden Coloured Paint(24KColour)

### Relevant identified uses of the substance or mixture and uses advised against

Identified Uses : Paint

Serial Number : KT0050

### Details of the supplier of the safety data sheet

Company : HORI METAL LEAF&POWDER CO.,LTD.

GOKOMACHI-HIGASHIIRU,OIKEDORI,

NAKAGYO-KU,KYOTO,JAPAN

Phone : 0081-75-231-5357(Person in charge:Mr. Masahiro Hayashi/Technical Dept.)

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### Emergency telephone number

Emergency phone : 0081-75-231-5357

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## 2 HAZARD IDENTIFICATION

### CLASSIFICATION (GHS) OF THE SUBSTANCE OR MIXTURE

Physical/Chemical Hazard : Out of Classification

Harm for Health	: Acute Toxicity (Oral)	Category 2
	: Acute Toxicity (Skin)	Category 4
	: Acute Toxicity (Inhalation: Gas)	Category 3
	: Acute Toxicity (Inhalation:Vapor)	Not Classification
	: Acute Toxicity (Inhalation:Dust, Mist)	Category 3
	: Skin Irritation/Corrosivity	Category 2
	: Severe Eye Injury/Eye Irritation	Category 2
	: Respiratory Organs Sensitization (Solid/Liquid)	Not Classification
	: Respiratory Organs Sensitization (Gas)	Not Classification
	: Skin Sensitization	Not Classification
	: Germ-Cell Mutagenicity	Category 2
	: Carcinogenicity	Category 2
	: Reproduction Toxicity	Category 2
	: Additional Category for the Affection to through breast-feed	Not Classification
	: Specific Target Organ/Whole Body Toxicity (Single Exposure)	Category 1.2
	: Specific Target Organ/Whole Body Toxicity (Repeated Exposure)	Category 1.2
	: Aspiration Respiratory Harmfulness	Not Classification
Environmental Hazard	: Aquatic Environmental Harmfulness (Acute)	Category 3
	: Aquatic Environmental Harmfulness (Chronic)	Not Classification

LABEL ELEMENTS

Pictogram



Signal Word

Danger

Hazard Statement

Highly flammable liquids and vapors

Harmful if swallowed

**Harmful if in contact with skin**

Harmful by inhalation (vapor)

Skin irritation

**Serious eye irritation**

Suspected fear of genetic disease

Suspected of carcinogenicity

Fear of adverse effects on fertility or the unborn child

Disorders of organs (pancreas, nerves, liver, blood, kidneys, respiratory organs)

Fear of organ (lung, kidney) damage

Fear of irritation to organs (respiratory organs)

Damage to organs (nerve, kidney, liver, peripheral nervous system)

due to long-term or repeated exposure

May cause damage to organs (blood, nerves) due to long-term or repeated exposure

Harmful to aquatic life

Precautionary Statement

(Read SDS certainly before handling or use)

<Precautionary Measures>

- : Keep container tightly closed.
- : Stop eating or smoking when use.
- : Wear appropriate protection gloves/eye protection/face guard/protection clothes.
- : Wash hands thoroughly after handling.

<Counter Plan>

- : Make a suitable extinguishing method when fire.
- : Swallowing : See a physician if unpleasant. Wash mouth well.
- : Inhalation : Move to the fresh air area and rest with relaxed pose for sufficient breath.  
If needed, see a physician.
- : Eye : Rinse cautiously with water for several minutes. Remove contact lenses ,if present, and possible to do so. Continue rinsing. Consult an oculist  
if having an irritation
- : Skin or Hair: Wash with soap and a plenty of water. See a doctor if unpleasant or skin irritation.

<Storage>

- : Direct sunshine is strictly prohibited. Packed into the closed container and store in  
  
a well-ventilated, cool and dark place because of easy polymerrization by UV rays or heat.

<Disposal>

Dispose of the content and container in accordance with the regulations stipulated by each local government.

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### 3 COMPOSITION INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION : Mixtures

INGREDIENT	CONTENT	CAS No.	
	(%)		
Aluminium	<1	7429-90-5	
Resin	15-25	9003-22-9	
Iron oxide	<5	1309-37-1	
MEK	5-15	78-93-3	
Silica	<2	7631-86-9	
Cyclohexanone	40-50	108-94-1	
Pigments(Blend)	10-20	.....	

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### 4 FIRST AID MEASURES

- Inhalation : Move to the fresh air area and keep warm and rest. If necessary, consult a physician.
- Skin : Wash with a plenty of water. Consult a doctor for inflammation.
- Eye : Immediately rinse cautiously with clean water for 15 minutes. Consult an oculist.
- Ingestion : Wash mouth and take the rest. Immediately see a physician.
- Anticipated Acute /Late Symptom : ( Irritation of Respiratory, Cough, Giddiness, Sore Throat,  
Loss of Consciousness  
( Irritation, Degreasing and Rubefaction  
( Irritation, and Rubefaction  
  
( Irritation of Digestive, Nausea Sickly Feeling, Vomiting and Diarrheal

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### 5 FIRE FIGHTING MEASURES

- Extinguishing Media : Dry Sand, Powder, Foam
- Prohibitive Extinguishant : Straight Stream of Water is unsuitable (Danger)
- Specific Hazard arising from Substance or Mixture  
: May emit stimulative, toxic or corrosive gas.  
: May occur polymerization by heating, and then might ignite.  
: May occur polymerization by heating, and then might explode.  
: No spontaneous combustion.
- Specific Fighting Measure : In case of expanding the fire by sprinkling water, use the suitable extinguishing media stated as above except for sprinkling water.  
Use foam extinguishing media to cut off the air for large scale fire.  
Remove the container from fire area if not dangerous & possible. If impossible, cool down the container and surrounding area sufficiently with a plenty of splinking water.  
Furthermore cool down the container with water after extinction.
- Protection of Firefighters : Firefighters should be equipped with protective apparatus and never do it under the lee. Especially, pay the caution not to inhale toxic gas.

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### 6 ACCIDENTAL RELEASE MEASURES

- Cautions, Protection Apparatus & Emergency Counter-Plan  
: Wear a protective apparatus (Ref. Chapter 8) and keep eye and skin off the contact or avoid inhalation of gas. Make the insulated area as spillage range with the suitable distances of every direction.

Cautions for Ecology : Exercise reasonable care and attention not to drain the waste water into the rivers  
 (Recovery, Neutralization) : In case of leakage, prevent the diffusion of leakage and scoop up the effluent materials or absorb them into the absorber in order to recover them in the sealed vessel.  
 (Absorber : Sawdust, Earth, Sand & Waste Cloth)

Containment and Decontamination Measures & its Apparatus,  
 : Hold the leakage if not dangerous.  
 : All apparatus for handling leakage should be earthed.

Preventive Action for Secondary Disaster  
 : Shut off all sources of ignition at once near the leakage and prepare the extinguisher  
 : Prevent the inflow to drainage, drain, basement and closed area.

## 7 HANDLING AND STORAGE

Handling : No flares, smoking or flames in area. Sufficient ventilation should be done in the working zone. Wear appropriate protection apparatus while handling.  
 If adhesion on working wear, remove it, and wash hands & mouth well.  
 Waste cloth after wiped the leakage out should be burnt or abandoned immediately.

Contact Avoidance : See "Chapter 10 : Stability and Reactive".

### Storage

Suitable Storage Condition : Keep at cool & dark place well-ventilated.  
 Follow Fire Prevention Ordinance if the quantity is more than the designated amount.

Reaction Hazard : See "Chapter 10 : Stability and Reactive".

Container, Packing Material : Use the container stipulated by the Fire Service Act or U. N. Recommendations on the Transport of Dangerous Goods.

## 8 EXPOSURE CONTROLS/PERSONEL PROTECTION

### Occupational Exposure Limits

Name of substance	Control concentration	Allowable concentration	
		Japan Society for Occupational Health	ACGIH (TLV)
Iron oxide			5mg/m <sup>3</sup>
Silica			1mg/m <sup>3</sup>
Aluminium			1mg/m <sup>3</sup>
MEK	200ppm	590mg/m <sup>3</sup>	
Cyclohexanone		100mg/cm <sup>3</sup>	100mg/cm <sup>3</sup>

Engineering Measures : Close the container tightly in case of using in room or do sufficient ventilation. Instal the safety shower, hand washing apparatus and eyes washable apparatus near to the working area.

### Protection Apparatus

Respiratory : Dust Respirators  
 Hands : Oil Proof Gloves  
 Eyes : Safety Glasses with Side Shields or Chemical Splash Goggles  
 Skin : Gloves, Coveralls, Apron and Boots.  
 Sanitation : Absorbent of the mask should be changed periodically or before every use.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid (Gold Color)
Order	: It smells of ketone.
Melting /Solid Point	: No Data
Boiling Point	: No Data
Flash Point	: -9°C
Auto-ignition Temp.	: No Data
Explosive Limits	: No Data
Vapor Pressure	: No Data
Vapor Density (Air=1)	: No Data
Specific Gravity	: No Data
Solubility	: It's insoluble in water.
Partition Coefficient (N-Octanol/Water)	: No Data
Decomposition Temp.	: No Data

## 10 STABILITY AND REACTIVITY

Stability	: Stable under the ordinary conditions (ordinary temperature & atmospheric pressure) Polymerization occurs by UV rays or heating. Ignition and generation of gas happen at high temperature.
Conditions to avoid	: Heat

## 11 TOXICOLOGICAL INFORMATION

### Harmful Information for Ingredients

Ingredient	Acute Toxicity			
	Oral Toxicity	(mg/kg)	Dermal Toxicity	(mg/kg)
cyclohexanone	Category 4	1544mg/kg	Category 3	947mg/kg
iron oxide		<5000mg/kg		
silica		10000mg/kg		

Ingredient	Acute Toxicity			
	Inhalation:Gas	(ppmv)	Inhalation:vapour	(ppm)
cyclohexanone	Out of Classification	2450ppm	Category 3	8000ppm

Ingredient	Acute Toxicity		Skin Corrosiveness/Irritation
	Inhalation:Dust	(ppm)	Category
cyclohexanone	Out of category		Category 2

Ingredient	Severe Eye Injury	Respiratory/Skin Sensitization
		Materials for Respiratory Sensitization
cyclohexanone	Category 2A	Not Classification

Ingredient	Respiratory/Skin Sensitization	Germ-Cell Mutagenicity
	Materials for Skin Sensitization	
cyclohexanone	Out of category	Category 2

Ingredient	Carcinogenic	Reproduction Toxicity
cyclohexanone	Category 2	Category 2

Ingredient	Specific target organ / systemic toxicity (Single exposure)		
cyclohexanone	Category 1	Category 2	Category 3

Ingredient	Specific target organ / systemic toxicity (Repeated exposure)		
cyclohexanone	Category 1		

Ingredient	Aspiration respirator Hazard	Aquatic environment Hazard (acute)	Aquatic environment Hazard (chronic)
cyclohexanone	Category 2	Out of category	Out of category

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## 12 ECOLOGICAL INFORMATION

No Data Identified

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## 13 DISPOSAL CONSIDERATIONS

When discarding of the contents and the container, we suggest to commissions the treatment to the industrial waste treatment company who obtains the permission of the authorities.

Don't discharge the waste water from rinsing of the containers or equipments to the land or drain.

And also, waste materials gained by the waste water treatment or incineration should be treated in accordance with the laws or regulations for it. Or commission it to the official treatment company.

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## 14 TRANSPORT INFORMATION

International Regulations

UN Number	1263
UN Proper Shipping Name	PAINT
Hazard Class	3
Packing Group	II

Domestic Regulations

UN Number	1263
Guideline Number	128

Transportation by Land : Follow the way stipulated in Fire and Disaster Management Act/Industrial Safety and Health Law/Poisonous and Deleterious Substances Control Law.

Transportation by Sea : Follow the way in Ship Safety Act.

Transportation by Air : Follow the way in Aviation Law.

Cautions on Transporta- : For the handling and storage, see Chapter 7.

tion : On the occasion of transportation, it confirms that there is no leak in a container and package, it loads that there may not be a fall, drop and damage, and collapse-of- cargo-piles prevention is ensured.

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## 15 REGULATORY INFORMATION

Industrial Safety and Health : Substance subject to reporting---Article 57-Item 2 (Cyclohexanone•Ethyl asetate•  
Notice Indication. Butylcellosolve•MEK)

PRTR Law : Not appricable

Fire & Disaster Management : Inflammable fluid

Act/Fire Prevention

Ordinance Regulation

Poisonous & Deleterious : Not appricavble

Substances Control Law

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## 16 OTHER INFORMATION

### Disclaimer

The above information is based on data available to us and is believed to be correct. Since the information may be applied under conditions beyond our control and with which we may be unfamiliar we do not assume any responsibility for the results of its use and all persons receiving it must make their own determination of the effects, properties, protections and disposal which pertain to their particular conditions. No representation, warranty, or guarantee, express or implied (including a warranty of fitness or merchantability for a particular purpose), is made with respect to the materials, the accuracy of this information, the results to be obtained from the use thereof, or the hazards connected with the use of the material. Caution should be used in the handling and use of the material. The above information is offered in good faith and with the belief that it is accurate. As of the date of issuance, we are providing all information relevant to the foreseeable handling of the material. However, in the event of an adverse incident associated with this product, this Safety Data Sheet is not, and is not intended to be, a substitute for consultation with appropriately trained personnel.

Literatures on this subject : **ACGIH (2006).**

: **International Chemical Safety Card (ICSC).**<http://www.nihs.go.jp/ICSC>

: **Kanagawa Environmental Reserch Data Base.**  
<http://www.k-erc.pref.kanagawa.jp>

: **Independent Administrative Corporation "National Institute of Technology and Evaluation (NITE)" Data Base for GHS Classification.**

: **Text how to make MSDS of the mixture (Chemicals) corresponding to GHS form.**  
**(The Japan Industrial Safety and Health Association)**

: **Japanese Society of Occupational Health (2006-2007)**  
<http://joh.med.uoeh-u.ac.jp/oel/index.html>

: **Literatures for Material Safety Data Sheet : Rev. 3 Edition JIS Z7250 for 2005. (Printing Ink Industrial Federation)**

: **OSHA**

: **Chemicals Data Base (Japanese Chemical Data Base)**

: **List of Controlled Substances Act (Japanese Chemical Data Base)**

: **GHS Classification Data Base (NITE)**

