

# MATERIAL SAFETY DATA SHEET

DATE PREPARED : 20.AUG.2020

DATE OF REVISION :

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

### Product Identifiers

Product Name : Sailing Gold gold color •Silver color painting

### 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.)

Fax : 0081-75-231-5357

E-mail address : post@horikin.co.jp

### Emergency telephone number

Emergency phone : 0081-75-231-5357

## 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.

## 3 COMPOSITION INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION

: Mixtures

INGREDIENT	CONTENT (%)	CAS No.
Aluminium	2.0-6.0	7429-90-5

Resin	2.0–7.0	9003–22–9
Ethyl aetate	2.0–4.0	141–78–6
MEK	5.0 – 15.0	78–93–3
Oil	<0.2	63742–88–7/64742–95–6
Cyclohexanone	45.0–55.0	108–94–1
Butylcellosolve	10.0–20.0	7580–85–0
Oil	5.0–10.0	64742–94–5
Pigments	3.0–8.0	3.0–8.0

#### 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	:	(Inhalation) Irritation of Respiratory, Cough, Giddiness, Sore Throat,
Symptom	:	Loss of Consciousness
	:	(Skin) Irritation, Degreasing and Rubefaction
	:	(Eye) Irritation, and Rubefaction
	:	(Ingestion) Irritation of Digestive, Nausea Sickly Feeling, Vomiting and Diarrheal

#### 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 sprinkling 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.

#### 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.

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## 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.

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## 8 EXPOSURE CONTROLS/PERSONEL PROTECTION

#### Occupational Exposure Limits

Ingredient	Control Value	Allowable Concentration	
		JSOH*	ACGIH
Aluminum	3.0mg/m <sup>3</sup>	0.5mg/m <sup>3</sup>	10mg/m <sup>3</sup>

\*Japanese Society of Occupational Health

- 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.

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## 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 : No Data

(N-Octanol/Water)

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	Content (%)	Acute Toxicity			
		Oral Toxicity	(mg/kg)	Dermal Toxicity	(mg/kg)
Aluminium	2-6	Not Classification		Not Classification	

Ingredient	Content (%)	Acute Toxicity		
		Inhalation:Gas	(ppmv)	Inhalation:vapour
Aluminium	2-6	Out of Classification		Not Classification

Indredient	Content (%)	Acute Toxicity	Skin Corrosiveness/Irritation
		Inhalation:Dust	(ppm)
Alumnium	2-6	Not Classification	

Ingredient	Content (%)	Severe Eye Injury	Respiratory/Skin Sensitization
			Materials for Respiratory Sensitization
Aluminium	2-6	Not Classification	

Ingredient	Content (%)	Respiratory/Skin Sensitization	Germ-Cell Mutagenicity
		Materials for Skin Sensitization	
Aluminium	2-6	Not Classification	Not Classification

Ingredient	Content (%)	Carcinogenic	Reproduction Toxicity
Aluminium	2-6	Not Classification	

Ingredient	Content (%)	Specific Target Organ/Whole Body Toxicity (Single Exposure)
Aluminium	2-6	Not Classification

Ingredient	Content (%)	Specific Target Organ/Whole Body Toxicity (Repeated Exposure)
Aluminium	2-6	Category 2

Ingredient	Content (%)	Aspiration Harmfulness	Aquatic Environment	Aquatic Environment
		Respiratory	Harmfulness (Acute)	Harmfulness (Chronic)
Aluminium	2-6	Not Classification	Not Classification	Category 4

## 12 ECOLOGICAL INFORMATION

No Data Identified

## 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.

## 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 Transportation : For the handling and storage, see Chapter 7.

: 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.

## 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

## 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 Research 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)**