

# Safety Data Sheet

U.S.Department of Labor Occupational Safety and Health Administration May be used to comply with OSHA's Hazard Communication Standard, (Non-Mandatory Form) 29 CFR 1910. 1200. Standard must be Form Approved consulted for specific requirements. OMB No.1218-0072 § 1 - IDENTITY INFORMATION Product Name (as used on label and list) DO 655, DO 505, DO 405 **DUO Painting Oil Medium** HOLBEIN Works, Ltd. Manufacturer 2-2-5, Ueshio, Chuo-ku, Osaka-shi, Address

Telephone Number for information Emergency Telephone Number Date Prepared Preparer

HOLBEIN Works, Ltd. 2-2-5, Ueshio, Chuo-ku, Osaka-shi, OSAKA 542-0064 JAPAN 81-6-6191-7722 81-72-985-1223 2014-7-23 ALAKI, Yutaka

## § 2- HAZARD IDENTIFICATION

Classification : Hazard information :	Flammable Liquid, Category 3 Irritant to eyes and skin. Inhalation of concentrated vapor irritates eyes and/or bronchial pathway, or may influences to central nerve.
Acute toxicity : Skin Irritation :	Category 4 Category 3
Eye Effects :	Category 2B
Respiratory Sensitization :	Category 1/Inhalation may cause allergy, asthma or dyspnea.
Skin Sensitization :	Category 1/Inhalation may cause allergic dermatitis.

# § 3. COMPOSITION / INGREDIENTS

Components (Specific Chemical Identity, Common Name(s))

Polymerized Linseed Oil *	CAS No. 67746-08-1
Synthetic Resin	CAS No. 69430-35-9
Mineral Spirit (Solvent) **	CAS No. 8052-41-3
Cobalt Naphthenate (Dryer)	CAS No. 61789-51-3
Polyoxyethylene Alkyl Ether (Surfactant)	CAS No. 68131-40-8

\*: Vegitable drying oil (Triglyceride of Linolic, Linolenic, Oleic or Palmitic acid) \*\*: Fractionally distillated petroleum

## § 4. FIRST AID MEASURES

	Remove to fresh air. Do NOT induce vomiting, except in case of excess swallowing. Ask immediateely for medical doctor.
Eyes :	In case of eye contact, rinse with plenty of water and if necessary consult an eye specialst.
Skin Contact :	Upon skin contact, wash with plenty of water, soap or other non- irritating cleansing agents.

# § 5. FIRE AND EXPLOSION HAZARD DATA

Flammability : Flash Point : Autoignition Temp :	
Extinguishing Method :	Take off fire or other flammable materials, and use with extinguishing tools.
Extinguising Media : Unusal Fire and Explosion Hazards :	

### § 6. ACCIDENTAL RELEASE MEASURES

Step to Be Taken in Case Mater	ial Is Released or Spilled :
	Take up with absorbent materials.
Prevention of Secondary Disaster :	Take off fire or other flammable materials.
Personal Consideration :	Use mechanical ventilation
Environmental Precautions :	Prevent spills from entering storm sewers or drains.

### § 7. HANDLING AND STORAGE

Precautions to Be Taken in Handling and Storing : Avoid prolonged or repeated contact with

Storage Requirements :	Keep from fire or flammable materials.	Do not allow
Handling Procedures/Equipment :	product temperature to rise high. Treat as paint product.	

## § 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls : Personal Protection :

## § 9. PHYSICAL / CHEMICAL CHARACTERISTICS

Odor :	Clear yellow liquid Petroleum smell N/A
Boilling Point : Specific Gravity (H2O = 1) : Solubility in Water :	0.84

Avoid inhaling aerosols.

Use mechanical ventilation when applying.

## § 10. HAZARD INFORMATION AND STABILITY

	Flammable Stable under normal state
Reactivity :	None
Byproducts :	Carbon dioxide, water and dioxide of cobalt.
Hazardous Decomposition or Byproduc	ts : No thermal decomposition when stored and handled
	correctly.
Incompatibility (Materials to Avoid) :	
Corrosive Behavior :	None

# § 11. TOXICOLOGICAL INFORMATION

Primary Routes of Entry :	Dermal, eye contact, swallowing
Oral Toxicity (LD50) :	20g/kg
Inhalation Toxicity :	Inhalation of concentrated vapor irritates eyes and/or bronchial pathway, induces dizziness or headache, or influences to central nerve. Chronic inhalation of excess vapor may cause pneumonia. (Mineral spirit)

Item Numbers: 01731-5004, 01731-5055

#### DUO Painting Oil 3/3

Effects of Acute Exposure : Eye irritation : Skin irritation :	None known Usually irritant to the eye mucous membrane Long time or repeated contact may irritate to skin and may cause inflammation.
Repeated Exposure :	Inhalation of mist may cause irritation of bronchial pathway and/or stupor.
Sensitization, Reproductiv	ve Toxicity : No data available on product.
Mutagenicity :	Mutagenicity was not confirmed with testing on rat by typhoid bacilli, testing on mouse by lymphocyte or testing on rat by marrow cell. (Mineral spirit)
Carcinogenicity :	IARC (The International Agency for Research on Cancer) classifies mineral spirit in Group 3, not classifiable agent as to its carcinogenicity to humans. (Mineral sprits)
Teratogenicity :	Teratogenicity was not confirmed with testing on pregnant rat by vapor exposure between six to fifteen days in the 100ppm and 365 ppm. (Mineral sprits)

### § 12. ECOLOGICAL INFORMATION

Not been comfirmed

#### § 13. DISPOSAL CONSIDERATIONS

Disposal Considerations : Waste Disposal Method :

To be incinerated.

Stained cloths or papers which has been used to wipe or so on are so flammable that they had better been wetted with water.

### § 14. TRANSPORT INFORMATION

Hazard Class : UN number : Class 3 (Flammable) 1268

# § 15. REGULATORY INFORMATION

Conforms to ACMI, Art & Creative Materials Institute, under ASTM D 4236

Industrial Safety and Health Law : Flammable organic solvent Fire Service Law : Dangerous Materials ; Group 4, Petroleum Category 2 Regulation to Control Dangerous Materials : Conforms to article 41 and below. High Pressure Gas Safety Law : N/A

## § 16. OTHER INFORMATION

Notice : The information of this sheet is based on the present state of our knowledge and does not therefore guarantee certain properties.