

Safety Data Sheet

U.S.Department of Labor

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910. 1200. Standard must be

consulted for specific requirements.

Occupational Safety and Health Administration (Non-Mandatory Form)

Form Approved

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

Manufacturer HOLBEIN Works, Ltd.

> Address 2-2-5, Ueshio, Chuo-ku, Osaka-shi,

> > OSAKA 542-0064 JAPAN 81-6-6191-7722

Telephone Number for information Emergency Telephone Number

81-72-985-1223 2014-7-23

Date Prepared ALAKI, Yutaka Preparer

§ 2- HAZARD IDENTIFICATION

Classification: Flammable Liquid, Category 3

Hazard information: Irritant to eyes and skin. Inhalation of concentrated vapor

irritates eyes and/or bronchial pathway, or may influences

to central nerve.

Category 4 Acute toxicity: Skin Irritation: Category 3 Eye Effects: Category 2B

Category 1/Inhalation Respiratory Sensitization:

may cause allergy,

asthma or dyspnea.

Skin Sensitization: Category 1/Inhalation may cause allergic dermatitis.



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. Inhalation:

Ingestion: Do NOT induce vomiting, except in case of excess swallowing.

Ask immediateely for medical doctor.

Eves: 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: Flammable Flash Point: 44.3°C Autoignition Temp: 263°C

Extinguishing Method: Take off fire or other flammable materials, and use with

extinguishing tools.

Extinguising Media: Foam, Dry powder, CO2

Unusal Fire and Explosion Hazards: None

§ 6. ACCIDENTAL RELEASE MEASURES

Step to Be Taken in Case Material 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

skin and eyes.

Storage Requirements: Keep from fire or flammable materials. Do not allow

product temperature to rise high.

Handling Procedures/Equipment: Treat as paint product.

§ 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use mechanical ventilation when applying.

Personal Protection: Avoid inhaling aerosols.

§ 9. PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance: Clear yellow liquid Odor: Petroleum smell

pH: N/A

Boilling Point: $156\sim200^{\circ}$ C

Specific Gravity ($H_2O = 1$): 0.84

Solubility in Water: Dispersible

§ 10. HAZARD INFORMATION AND STABILITY

Physical Dangers: Flammable

Stability: Stable under normal state

Reactivity: None

Byproducts: Carbon dioxide, water and dioxide of cobalt.

Hazardous Decomposition or Byproducts: No thermal decomposition when stored and handled

correctly.

Incompatibility (Materials to Avoid): None

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)

Effects of Acute Exposure: None known

Eye irritation: Usually irritant to the eye mucous membrane

Skin irritation: 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, Reproductive 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: To be incinerated.

Waste Disposal Method: 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: Class 3 (Flammable)

UN number: 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.