



2016-10-31

## SAFETY DATA SHEET

May be used to comply with U.S. Department of Labor  
 OSHA's Hazard Communication Standard, Occupational Safety and Health Administration  
 29 CFR 1910. 1200. (Non-Mandatory Form)  
 Standard must be consulted for specific requirements. OMB No.1218-0072

### § 1 - IDENTITY INFORMATION

Product Name (as used on label and list) : DO 652, DO 502, DO 402 DUO Linseed Oil

Manufacturer : HOLBEIN Works, Ltd.  
 Address : 2-2-5, Ueshio, Chuo-ku, Osaka-shi  
 OSAKA 542-0064 JAPAN  
 Telephone Number for information : 81-6-6191-7722  
 Emergency Telephone Number : 81-72-985-1221  
 Preparer : ALAKI, Yutaka

### § 2 - HAZARD IDENTIFICATION

Classification : Non-regulated (designated combustible liquid)  
 Hazard information : Especially none

### § 3 - COMPOSITION / INGREDIENTS

Components (Specific Chemical Identity, Common Name(s), C.I. No) CAS. No.

Linseed Oil *	$  \begin{array}{c}  \text{CH}_2\text{—OCOR} \\    \\  \text{CH—OCOR} \\    \\  \text{CH}_2\text{—OCOR}  \end{array}  $	8001-26-1
Surfactant		Registered

\*: Vegetable drying oil (Triglyceride of Linolic, Linolenic, Oleic and/or Palmitic acid)

### § 4 - FIRST AID MEASURES

Inhalation : This product is not inhaled.  
 Ingestion : Plenty amount of ingestion may induce diarrhea. If you feel unwell, seek medical advice.  
 Eyes : In case of eye contact, rinse with plenty of water and consult an eye specialist if necessary.  
 Skin Contact : Upon skin contact, wash with water, soap or other non-irritating cleansing agents.

### § 5 - FIRE AND EXPLOSION HAZARD DATA

Flammability : Combustible  
 Flash Point : 306 °C  
 Extinguishing Method : Take off fire or other flammable materials, and use with extinguishing tools.  
 Extinguishing Media : Foam, Dry powder, CO2  
 Unusual Fire and Explosion Hazards : Oil dries by oxygen. Not exclusive. Rags or waste soaked with oil may spontaneously catch fire if improperly discarded.

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## § 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 : Especially none

Environmental Precautions : Prevent spills from entering storm sewers or drains (Drying oil may cause of clogging).

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## § 7 - HANDLING AND STORAGE

Precautions to Be Taken in Handling and Storing : Especially none

Storage Requirements : Keep from fire or flammable materials. Do not allow product temperature to rise high. Close the cap tightly.

Handling Procedures/Equipment : Treat as paint product.

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## § 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls : Use mechanical ventilation when applying.

Personal Protection : Especially none

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## § 9 - PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance : Clear yellow liquid

Odor : Oily smell

pH : N/A

Boiling Point : —

Specific Gravity (H<sub>2</sub>O = 1) : 0.930~0.933

Solubility in Water : Dispersible

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## § 10 - HAZARD INFORMATION AND STABILITY

Physical Dangers : Combustible

Stability : Stable under normal state

Reactivity : None

Byproducts : Carbon dioxide, water and dioxide of cobalt.

Hazardous Decomposition or Byproducts : Products small amount of peroxides or aldehydes while dry or under high temperature. In case of fire, forms carbon dioxide and water.

Incompatibility (Materials to Avoid) : None

Corrosive Behavior : None

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## § 11 - TOXICOLOGICAL INFORMATION

Primary Routes of Entry : Dermal, swallowing

Oral Toxicity (LD<sub>50</sub>) : N/A

Inhalation Toxicity : This product is not inhaled.

Effects of Acute Exposure : None known

Eye irritation : Usually non irritant (tested on rabbit eyes).

Skin irritation : Usually non irritant. Allergic for some persons.

Repeated Exposure : No special data available

Sensitization, Reproductive Toxicity : No data available on product.

Mutagenicity, Carcinogenicity, Teratogenicity : No data available

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## § 12 - ECOLOGICAL INFORMATION

Not been confirmed

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**§ 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.

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**§ 14 - TRANSPORT INFORMATION**

Hazard Class : Non-regulated  
UN number : N/A

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**§ 15 - REGULATORY INFORMATION**

Conforms to ACMI, Art & Creative Materials Institute, under ASTM D 4236  
Industrial Safety and Health Law : Combustible oil  
Fire Service Law : Designated combustible liquid  
High Pressure Gas Safety Law : N/A

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**§ 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.

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**Appendix****Table HEALTH INFORMATION**

DUO Linseed Oil is classified as AP product in the ACMI system.

AP (Approved Product) : Contain no materials in sufficient quantities to be toxic or injurious to humans.  
CL (Cautionary Label) : Any known health risks and with information on the safe and proper use of these materials