



## 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 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	81-72-985-1223
Date Prepared	2014-7-29
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))

Linseed Oil *	$\begin{array}{c} \text{CH}_2\text{—OCOR} \\   \\ \text{CH—OCOR} \\   \\ \text{CH}_2\text{—OCOR} \end{array}$	CAS No. 8001-26-1
Polyoxyethylene Alkyl Ether (Surfactant)		CAS No. 68131-40-8

\* : Vegetable drying oil (Triglyceride of Linolic, Linolenic, Oleic 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, CO<sub>2</sub>

DUO Linseed Oil 2/3

Unusual Fire and Explosion Hazards : Oil dries by oxygen. Rags or waste soaked with oil may spontaneously catch fire if improperly discarded. Not exclusive.

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**§ 6. ACCIDENTAL RELEASE MEASURES**

Step to Be Taken in Case Material Is Released or Spilled :

Prevention of Secondary Disaster : Take up with absorbent materials.  
Personal Consideration : Take off fire or other flammable materials.  
Environmental Precautions : Especially none  
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 :

Storage Requirements : Especially none  
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.