



# SAFETY DATA SHEET

2016-10-31

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 455, DO 306, DO 206 DUO BRUSH CLEANER

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

This product is water-based and not classified as dangerous for supply or conveyance.

Classification : Non-regulated

Danger : Not nonflammable, not explosive

Oral Effects : Category 5 (May be harmful if swallowed)

Eye Effects : Category 2 (Eye irritant)

Ecological consideration : Especially none



## § 3 - COMPOSITION / INGREDIENTS

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

Surfactant	—	Registered
Water Retainer	(Propylene Glycol)	57-55-6
Water *		7732-18-5

## § 4 - FIRST AID MEASURES

Eyes : In case of eye contact, rinse with plenty of water and if necessary consult an eye specialist.

Ingestion : In case of swallowing, drink plenty of water. Induce vomiting. If you feel unwell, seek medical advice.

Skin Contact : Upon skin contact, wash with plenty of water, soap or other non-irritating cleansing agents.

Inhalation : This product is not inhaled.

## § 5 - FIRE AND EXPLOSION HAZARD DATA

Flammability : Water-based product. Not flammable under normal condition.

Autoignition Temp.: N/A

Flash Point : 264°C (after dried)

Extinguishing Media : Water mist, Foam, Dry powder, CO<sub>2</sub>

Unusual Fire and Explosion Hazards : Material will not support combustion

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## § 6 - ACCIDENTAL RELEASE MEASURES

Take up with absorbent materials.

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## § 7 - HANDLING AND STORAGE

Precautions to Be Taken in Handling and Storing :

Avoid prolonged or repeated contact with skin and eyes.

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## § 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Special cautions are normally not necessary.

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## § 9 - PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance : Water white liquid  
Volatile : Water  
Odor : Own smell  
Specific Gravity (H<sub>2</sub>O = 1) : 1.05  
Boiling Point : Approx. 100°C  
Evaporation Rate : Slower than ether  
pH : 4  
Solubility in Water : ∞

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## § 10 - HAZARD INFORMATION AND STABILITY

Stability : Stable under normal state  
Reactivity : None  
Incompatibility (Materials to Avoid) : None  
Hazardous Decomposition or Byproducts : No thermal decomposition when stored and handled correctly.  
Corrosive Behavior : No

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## § 11 - TOXICOLOGICAL INFORMATION

Primary Routes of Entry : Dermal, eye contact, inhalation, swallowing  
Oral Toxicity (LD<sub>50</sub>): Above 63g/Kg (acute toxicity on swallowing / rats)  
Noted that this product may be harmful if swallowed.  
Effects of Acute Exposure : None known  
Effects of Chronic Exposure : None known  
Skin irritation : Non irritant (tested on rabbits)  
Eye irritation : Irritant  
Carcinogenicity : Not listed as carcinogen  
Sensitization : Not expected  
Mutagenicity : N/A  
Teratogenicity : None known  
Individual Information : See the table of Appendix.

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## § 12 - ECOLOGICAL INFORMATION

Biological Elimination : COD value : 44 mg/g (Mn)  
BOD value : 22 mg/g  
Fish Toxicity : LC<sub>50</sub> : 60~125 100mg/L  
Test Species : Killifish  
Duration of Test : 48 hrs  
Inhabitation of Activity of Waste Water Bacteria : --  
Water Pollution Class (WGK) : --

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**§ 13 - DISPOSAL CONSIDERATIONS**

Disposal Considerations : May be led to the drain.

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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.

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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**

DUO Brush cleaner is classified as CL 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