



## Safety Data Sheet

U.S. Department of Labor may be used to comply with Occupational Safety and Health Administration 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)	DUO Brush Cleaner	DO 455, DO 306, DO 206
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	2014-9-9	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
Hazard information :	Especially none
Ecological consideration :	Especially none

### § 3. COMPOSITION / INGREDIENTS

Components	(Specific Chemical Identity, Common Name(s))	
Surfactant	(Polyoxyethylene Alkyl Ether)	CAS No. 68131-40-8
Water Retainer	(Propylene Glycol)	CAS No. 57-55-6
	water	CAS No. 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, CO2
Unusual Fire and Explosion Hazards :	Material will not support combustion unless the water has evaporated.

### § 6. ACCIDENTAL RELEASE MEASURES

Wipe off.

### § 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> ):	Oral Toxicity (LD <sub>50</sub> ) Above 63g/Kg (acute toxicity on swallowing / rats)
Effects of Acute Exposure :	None known
Effects of Chronic Exposure :	None known
Skin irritation :	Non irritant (tested on rabbits)
Eye irritation :	No data available.
Carcinogenicity :	Not listed as carcinogen
Sensitization :	Not expected
Mutagenicity :	N/A
Teratogenicity :	None known

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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 :	KillfishKillifish
	Duration of Test :	48 hrs
Inhibition 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.