



Safety Data Sheet

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

U.S. Department of Labor
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)
O 655, O 505, O 405, O 305, O 205, O 105	Painting Oil Medium
O 545, O 445, O 345	Odorless Painting Oil Medium
O 531, O 431, O 331	Special Painting Oil Medium
O 532, O 432	Special Mat Painting Oil Medium
O 504, O 404, O 304, O 204, O 104	Lesolvent
O 544, O 454, O 344	Odorless Lesolvent
O 533, O 433	Special Lesolvent
O 529, O 429, O 329	Quick Drying Medium
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	2015-2-24
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§ 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 influence central nerve.	
Acute toxicity :	Category 4	
Skin Irritation :	Category 3	
Eye Effects :	Category 2B	
Respiratory Sensitization :	Category 1/Inhalation may cause allergy, asthma or dyspnea	
Skin Sensitization :	Category 1/Inhalation may cause allergic dermatitis.	

§ 3. COMPOSITION / INGREDIENTS

	Drying oil *	Resin	Solvent	Dryer	Additive
Painting Oil Medium	1a	5a	7a	10	
Odorless Painting Oil Medium	2	5a	8	10	
Special Painting Oil Medium	1b	6	9	10	
Special Mat Painting Oil Medium	1b	-	7a	10	11
Lesolvent	3	5a	7a	10	
Odorless Lesolvent	3	5a	8	10	
Special Lesolvent	4	6	9	10	
Quick Drying Medium	1b	5b	7b	10	

Components	(Specific Chemical Identity, Common Name(s))	CAS No.
1a, 1b	Polymerized Linseed Oil	67746-08-1
2	Linseed Oil	8001-26-1
3	Poppy Oil	8002-11-7
4	Polymerized Poppy Oil	60-33-3
5a, 5b	Synthetic Resin	Registered
6	Dammar Resin	9000-16-2
7a	Mineral Spirit (Fractionally distilled petroleum)	8052-41-3

7b	Mineral Spirit	64742-81-0
8	Isoparaffin	Registered
9	Spirits of Turpentine (Alpha-pinene)	8006-64-2
10	Metallic soap (Ex; Cobalt Naphthenate, (RCOO)2Co)	61789-51-3
11	Silica (SiO ₂)	112945-52-5

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

§ 4. FIRST AID MEASURES

Inhalation :	Remove to fresh air.
Ingestion :	Do NOT induce vomiting, except in case of excess swallowing. Ask immediately for medical doctor.
Eyes :	In case of eye contact, rinse with plenty of water and if necessary consult an eye specialist.
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 (°C)	Autoignition Temp (°C)
	Painting Oil Medium	44.3	263
	Odorless Painting Oil Medium	48.0	-
	Special Painting Oil Medium	18.8	278
	Special Mat Painting Oil Medium	42.3	-
	Lesolvent	44	-
	Odorless Lesolvent	48	-
	Special Lesolvent	18.5	278
	Quick Drying Medium	42	210
Extinguishing Method :	Take off fire or other flammable materials, and use with extinguishing tools.		
Extinguishing Media :	Foam, Dry powder, CO ₂		
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

	Odor	Boilling Point (°C)	Specific Gravity (H ₂ O = 1)
Painting Oil Medium	1	156~200	0.84
Odorless Painting Oil Medium	2	166~190	0.82
Special Painting Oil Medium	3	150	0.88
Special Mat Painting Oil Medium	1	156~200	0.92
Lesolvent	1	154~197	0.88
Odorless Lesolvent		166~190	0.84

Special Lesolvent	150	0.88
Quick Drying Medium	156~200	0.91

1. Petroleum smell
2. Weak petroleum smell
3. Terpenic smell

§ 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 :	Painting Oil Medium] > 5,000 (Rat, Mineral spirits)
(LD50, mg/kg)	Lesolvent	
	Special Mat Painting Oil Medium] > 20,000 (Rat, Iso paraffin)
	Quick Drying Medium	
	Odorless Painting Oil Medium] > 3,700 (Spirits of turpentine)
	Odorless Lesolvent	
	Special Painting Oil Medium	
	Special Lesolvent	

Ingestion : Although the effect or toxicity of swallowing is not serious, the liquid or vapor based on swallowing or vomiting may cause of bronchitis or pulmonary edema.

Spirit of petroleum : Chronical excess inhalation in long time of mist induces inflammation of lung, and may cause fibrosis on pulmonary artery.

Odorless petroleum : Weak smell may not call the attention.

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 spirits)
	High density vapor irritates respiratory organ, and induces dizziness, headache, anesthesia, slumber or the effect to central nervous system. (Spirits of turpentine)
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 confirmed

§ 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 :	Painting Oil Medium	1268
	Odorless Painting Oil Medium	1268
	Special Painting Oil Medium	1299
	Special Mat Painting Oil Medium	1268
	Lesolvent	1268
	Odorless Lesolvent	1268
	Special Lesolvent	1299
	Quick Drying Medium	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 (Japan) :	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.