



SAFETY DATA SHEET

2024-11-13

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 500, O 400, O 300, O 200, O 100ESSENCE DE PÉTROLE

Manufacturer : HOLBEIN Works, Ltd.
Address : 1-3-14, Hishiya-nishi, Higashi-osaka-shi
OSAKA 577-0807, JAPAN Telephone Number for
information : 81-6-6191-7722
Emergency Telephone Number : 81-72-985-1222 (HOLBEIN Labo, Ltd.)
Preparer : ALAKI, Yutaka

§ 2 - HAZARD IDENTIFICATION

Classification : Category / Flammable liquid
Hazard information : Irritant to eyes and skin. Inhalation of concentrated vapor irritates eyes and/or bronchial pathway, or may influences to central nerve.
Acute toxicity : Category 4 / Ingestion may be harmful
Skin Effects : Category 2 / Irritate
Skin Sensitization : Category 1 / May cause allergic dermatitis
Eye Effects : Category 2B / Causes eye irritation
Respiratory Sensitization : Category 1 / Inhalation may cause allergy, asthma or dyspnea
Target organ toxicity (single exposure or repeated exposure) :
Category 3 / Inhalation may induces the effects to central nervous system.
Ecological consideration : Category 4 / Potential
Signal : Danger, Warning



§ 3 - COMPOSITION / INGREDIENTS

Substance/Mixture : Mixture (* : Main ingredient)

Components	(Specific Chemical Identity, Common Name(s), C.I. No)	CAS. No.
Naphtha (Hydrated Heavy Petroleum) *		64742-48-9
Glycoldiether *	CH ₃ OC ₃ H ₆ OC ₃ H ₆ OCH ₃	111109-77-4
Nonane **	CH ₃ (CH ₂) ₇ CH ₃	111-84-2

* : Naphthene and Isoparaffin of C₉~C₁₃

** : Less than 1%

§ 4 - FIRST AID MEASURES

Inhalation : Remove patiently to fresh air.
Ingestion : Do NOT induce vomiting, except in case of excess swallowing.
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.
 Notes to Physician : Provide general supportive measures and follow the kerosene accident.

§ 5 - FIRE AND EXPLOSION HAZARD DATA

Flammability : Flammable
 Flash Point : ≥ 40 °C
 Autoignition point : >165 °C
 Flammable Limits : 1~7 %
 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 : None

§ 6 - ACCIDENTAL RELEASE MEASURES

Step to Be Taken in Case Material Is Released or Spilled : Remove sources of ignition and provide ventilation. Then take up with absorbent materials.
 Prevention of Secondary Disaster : Take off fire or other flammable materials.
 Personal Consideration : Use mechanical ventilation, and use protective equipment such as rubber gloves and safety glasses, when large spills happened.
 Environmental Precautions : Prevent spills from entering storm sewers or drains.

§ 7 - HANDLING AND STORAGE

Precautions: 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.

§ 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls : Use mechanical ventilation when applying.
 Personal Protection : Especially none
 Administrative Levels (Threshold Limit Value) : 1,200mg/m³ (197ppm, Hydrocarbons)

§ 9 - PHYSICAL / CHEMICAL CHARACTERISTICS

Color, Appearance : Colorless clear liquid
 Odor : Mild petroleum
 pH : —
 Boiling Point : 150~200°C
 Specific Gravity (H₂O = 1): 0.85
 Solubility in Water : Not soluble

§ 10 - HAZARD INFORMATION AND STABILITY

Physical Dangers : Flammable
 Stability : Stable under normal state
 Reactivity : None
 Incompatibility (materials to avoid) : Strong acid
 Byproducts : Carbon dioxide and water
 Corrosive Behavior : None

§ 11 - TOXICOLOGICAL INFORMATION

Primary Routes of Entry : Dermal, eye contact, swallowing
 Oral Toxicity : LD₅₀ $\geq 15,000$ mg/kg

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.
Inhalation :	High density vapor irritates respiratory organ, and induces dizziness, headache, anesthesia, slumber or the effect to central nervous system.
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 products.
Mutagenicity :	Mutagenicity was not confirmed with testing on rat by typhoid bacilli, testing on mouse by lymphocyte or testing on rat by marrow cell.
Carcinogenicity :	IARC (The International Agency for Research on Cancer) classifies this type of solvent in Group 3, not classifiable agent as to its carcinogenicity to humans.

§ 12 - ECOLOGICAL INFORMATION

No suitable information

§ 13 - DISPOSAL CONSIDERATIONS

Disposal Considerations :	To be incinerated.
Waste Disposal Method :	In accordance with local official regulations, pass on to an appropriate incinerating plant or depository.

§ 14 - TRANSPORT INFORMATION

UN Proper Shipping Name :	Hydro carbon
UN Number :	3295
UN Hazard Class :	3
Packing Group :	III

§ 15 - REGULATORY INFORMATION

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
Conforms to ACMI under ASTM D 4236, and is classified into CL genre of ACMI system.	
ACMI :	The Art & Creative Materials Institute, Inc.
ASTM :	ASTM International (Former "American Society for Testing and Materials")
CL : Cautionary Label :	Any known health risks and with information on the safe and proper use of these materials

§ 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.