



## 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 1910.200. Standard must be Form Approved consulted for specific requirements. OMB No. 1218-0072

### § 1 – IDENTITY INFORMATION

Product Name (as used on label and list)	
O500, 400, O300, O200, O100	<b>Spirit of Petroleum (Essence de Petrole)</b>
O540, O440, O340	<b>Odorless Petroleum</b>
O501, O401, O301, O201, O101	<b>Spirits of Turpentine</b>
O527	<b>Spike Lavender Oil</b>
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	2014-12-9
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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
:	Category 2~3 (Spike Lavender Oil)
Eye Effects :	Category 2B
:	Category 2A (Spike Lavender Oil)
Respiratory Sensitization :	Category 1/Inhalation may cause allergy, asthma or dyspnea.
Skin Sensitization :	Category 1/Inhalation may cause allergic dermatitis.



### § 3. COMPOSITION / INGREDIENTS

	Common Name(s)	Components (Specific Chemical Identity)	CAS No
Spirit of Petroleum	Mineral Spirit	Fractionally distilled petroleum (Mainly aliphatic hydrocarbon of C8~C11)	8052-41-3
Odorless Petroleum	Isoparaffin	Indefinite	—
Spirits of Turpentine	Spirits of Turpentine	$\alpha$ -pinene (C <sub>10</sub> H <sub>16</sub> )	8006-64-2
Spike Lavender Oil	Spike Lavender Oil	Eucalyptol (C <sub>10</sub> H <sub>18</sub> O)	470-82-6
		Linalool	78-70-6
		Borneol	507-70-0

### § 4. FIRST AID MEASURES

Inhalation :	Remove patient 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

Solvents 2/3

	Spirit of Petroleum	Odorless Petroleum	Spirits of Turpentine	Spike Lavender Oil
Flash Point (TCC, °C) :	42	48	31	49
Ignition Point (°C) :	210		278	>200
Flammable Limits (%) :	0.6~7.0	0.6~6.2		
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 equipments 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**

Handling Procedures/Equipment : Avoid prolonged or repeated contact with skin and eyes. Use soap and water for clean-up.

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

Threshold Limit Value : 100ppm (525mg/m<sup>3</sup>, Spirits of Petroleum)

**§ 9. PHYSICAL / CHEMICAL CHARACTERISTICS**

	Spirit of Petroleum	Odorless Petroleum	Spirits of Turpentine	Spike Lavender Oil
Appearance	Water	white clear liquid	Trpentine	Yellowish clear liquid
Odor		Petroleum	155	Own
Boiling Point (°C)	150~200	166~190		170~215
Vapor Pressure (Pa)	1500 > (38°C)		800 (30°C)	
Vapor Density (Air = 1)	5.1		4.7	
Specific Gravity (H <sub>2</sub> O = 1)	0.79 (15°C)	0.76	0.864	0.91
Solubility in Water	Not soluble			

**10. HAZARD INFORMATION AND STABILITY**

Physical Dangers : Flammable

Stability : Stable under normal state

Incompatibility (materials to avoid) : None

Byproducts : Carbon dioxide and water

**§ 11. TOXICOLOGICAL INFORMATION**

Primary Routes of Entry : Inhalation, swallowing, eye contact, dermal

	Spirit of Petroleum	Odorless Petroleum	Spirits of Turpentine	Spike Lavender Oil
Oral Toxicity (LD <sub>50</sub> , mg/Kg):	5000	20,000	3,700	

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.

