

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	Spirit of Petroleum (Essence de Petrole)
O540, O440, O340	Odorless Petroleum
O501, O401, O301, O201, O101	Spirits of Turpentine
O527	Spike Lavender Oil
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	α -pinene (C ₁₀ H ₁₆)	8006-64-2
Spike Lavender Oil	Spike Lavender Oil	Eucalyptol (C ₁₀ H ₁₈ 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

	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			
Unusal 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/m³, Spirits of Petroleum)

§ 9. PHYSICAL / CHEMICAL CHARACTERISTICS

	Spirit of Petroleum	Odorless Petroleum	Spirits of Turpentine	Spike Lavender Oil
Appearance		Water white clear liquid		Yellowish clear liquid
Odor		Petroleum	Trpentine	Own
Boilling Point (°C)	150~200	166~190	155	170~215
Vapor Pressure (Pa)	1500 > (38°C)		800 (30°C)	
Vapor Density (Air = 1)	5.1		4.7	
Specific Gravity (H ₂ 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 ₅₀ , 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.

- Inhalation : High density vapor irritates respiratory organ, and induces dizziness, headache, anesthesia, slumber or the effect to central nervous system.
- 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.
- Eye irritation : Usually irritant to the eye mucous membrane
- Skin irritation : Long time or repeated contact may irritate to skin and may cause inflammation.
- Carcinogenicity (Spirit of petroleum, Odorless petroleum) : IARC (The International Agency for Research on Cancer) classifies mineral spirit in Group 3, not classifiable agent as to its carcinogenicity to humans.
- Mutagenicity (Spirit of petroleum, Odorless petroleum) : Mutagenicity was not confirmed with testing on rat by typhoid bacilli, testing on mouse by lymphocyte or testing on rat by marrow cell.
- Teratogenicity : Teratogenicity was not confirmed with testing on pregnant rat by vapor exposure between six to fifteen days in the 100ppm and 365 ppm.

§ 12. ECOLOGICAL INFORMATION

No suitable information

§ 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. In accordance with local official regulations, pass on to an appropriate incinerating plant or depository.

§ 14. TRANSPORT INFORMATION

Hazard Class : 3 (Flammable)

	Spirit of Petroleum	Odorless Petroleum	Spirits of Turpentine	Spike Lavender Oil
UN number :	1268	1268	1299	1993

§ 15. REGULATORY INFORMATION

- Conforms to ACMI, Art & Creative Materials Institute, under ASTM D 4236
- Industrial Safety and Health Law : Flammable
- Fire Service Law : Dangerous Materials
: Group 4, 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.