

# Material Safety Data Sheet

Company name: Lion Corporation  
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 Date of issue/revision: Jun. 29, 2001

Serial No. : 186403

<b>Product name (Chemical name or Bland name, etc.)</b>		ULVOIL SUPER R-7000
<b>Identification of substance</b>	Distinction of substance or mixture:	Mixture
	Chemical name:	
	Component and content :	1) Alkyl naphthalene 2) Olefin polymer
	Chemical structure:	1)C <sub>n</sub> H <sub>2 n+1</sub> -C <sub>10</sub> H <sub>7</sub> n=16-18
Serial No. of official gazette announcement (Law Concerning Examination and Regulation of Manufacture and Handling of Chemical Substances, Industrial Safety and Health Law):		Law Concerning Examination and Regulation of Manufacture and Handling of Chemical Substances 1)4-315 2) Listed on inventory
	CAS No.	1)56388-48- 8 56388-47-7 2) Listed on inventory
	TSCA	1),2) Listed on inventory
	NDSL	1) Listed on inventory
	ECL	1) Listed on inventory
	UN classification and UN No.:	The product does not correspond to U.N. classification standard.
<b>Classification of danger and harm</b>	Name of classification:	Not corresponding to classification criteria.
	Danger:	Flammable, keep out of fire
	Harm:	May cause irritation to the eyes, skin, etc
	Effect on environment:	May cause adverse effect on aqueous environment
<b>First aid</b>	When entered in the eye:	Flush eyes with clean water at least for 15 minutes and then obtain medical attention of ophthalmologist without delay. When rinsing, use fingers to assure that eyelids are separated and that eyeball and eyelids are irrigated well.
	When adhered on the skin:	Rinse well affected area with water or tepid water. Seek medical consultation when any changes in appearance are noticed thereafter.
	When inhaled:	Carry the victim to a place where fresh air is available, and ask for medical consultation, if necessary.
	When swallowed:	Thoroughly rinse the oral cavity with water, and give one to two cups of water or milk. Immediately ask for medical treatment. Nothing should be orally given to the victim when unconscious.
<b>Measures in fire</b>	Method of fire extinguish:	Remove flammable substances from the origin of fire, and apply fire extinguishers. Wear protective tools (glove, safety spectacles, mask etc.) during fire-fighting. Fight the fire from windward side if possible.
	Fire extinguisher:	Fire foam, carbon dioxide, dry chemical extinguisher, sand
<b>Measures in leakage</b>	When a large volume of liquid is spilled:	Never forget to wear protective tools (gloves, safety spectacles, mask etc.) Take care not to directly drain the spilled liquid into streams and sewers. The spilled liquid is surrounded with a bank of an inflammable material such as sand, and is recovered into an empty vessel using a shovel or a sucker. A small volume of the liquid fraction remained after recovery is absorbed in sand or sawdust. Flush with large volume of water when the volume of the remaining liquid fraction is very small.
	When a small volume of liquid is spilled:	Absorb the spilled liquid with an absorbent (sawdust, soil, sand or rag), and the rest is wiped off with rags or a dustcloth, followed by flushing with large volume of water.
<b>Cautions in handling and storage</b>	Handling:	Thoroughly ventilate the workroom, wear appropriate protective tools such as safety spectacles and gloves to avoid direct contact. Thoroughly wash the hand and face after handling, and gargle. Keep out of fire
	Storage:	The vessel is sealed and stored at a well ventilated place, desirably indoors. Keep out of fire

<b>Measures for prevention of exposure</b>	
Control concentration:	Not specified
Allowable concentration:	Japan Industrial Hygiene Society (2000 Edition) Not established. ACGIH (2000 Edition) Not established.
Facilities:	A local ventilation device is needed when vapor, fume or mist generates. Devices for eye flushing and body washing should be installed at near the handling room.
Protective tools:	Breathing protection: Use a gas mask for organic solvents, if necessary Protective spectacles: Safety spectacles with fringes (goggles or eye glasses with face protection, if necessary)
	Protective gloves: Impermeable protective gloves
	Protective clothing: Long sleeve clothes
<b>Physical/chemical properties</b>	
	Appearance: Light brown transparent liquid
	Boiling point(°C): 200°C
	Melting point(°C): -30°C or below
	Specific gravity: 0.9063 (15/4°C)
	Viscosity (mm <sup>2</sup> /s): 63 to 73 (40°C)
	Fluidizing point(°C) -20°C or below
	Solubility: Water: insoluble, Ethanol: insoluble, Hexane: soluble
<b>Information on danger</b>	
(stability, reactivity)	Flash point(°C): 230°C (COC)
	Auto-ignition temperature (°C): No data
	Explosive limits (%) (Upper limits): No data (Lower limits): No data
	Stability / Reactivity: Stable to heat, light and a shock Stable under normal handling conditions
<b>Information on harm</b>	
	Skin corrosiveness: No data
	Skin irritation: Repeated coating on rat skin for 4 days: 0.05 mL/20 × 20 mm, little irritation
	Eye irritation: No data
	Acute toxicity: LD <sub>50</sub> > 70 mL/kg <sup>1)</sup>
<b>Information on environmental effect</b>	
	Degradation : No data
	Fish-toxicity : No data
<b>Cautions on disposal</b>	
	Incinerate by small fractions, or entrust disposal to an industrial waste disposal company approved by a prefectural governor. Completely remove the ingredient before disposal of empty vessels.
<b>Cautions on transportation</b>	
	<ul style="list-style-type: none"> <li>• Confirm that there are no damage, corrosion and leak on the vessel before transportation.</li> <li>• Pack the vessels so that they do not fall down, drop and are damaged by certainly preventing the cargo from being collapsed.</li> <li>• Transport the product using a method and package method following provisions of Fire Fighting Law since the product is designated as Petroleum Class IV in Hazardous Materials Group IV in the Law.</li> <li>• Keep out of fire</li> <li>• Avoid direct sunlight</li> <li>• Strictly avoid leak of water</li> <li>• Loading sideways is strictly prohibited</li> </ul>
<b>The regulations in laws and ordinances</b>	
	Fire Service Law: Petroleum Class IV in Hazardous Materials Group IV, water insoluble liquid, Hazardous Class III

Labor's Safety and Hygiene Law: Not applied

Toxic and Hazardous Material Regulation Law: Not applied

Shipping Safety: Not applied

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**Other Information (Inquiry about description, references, etc.)**

References

1) Report of Lion Biological Science Research Center: C<sub>16-18</sub> Alkyl naphthalene

"Management of descriptions":

The above information may be revised according to the new findings. The descriptions herein are prepared based on the best materials, information and data available at present but constitute no warranty about the content, physical and chemical properties, danger and health hazard, etc. Cautions and notices are indicated for the normal handling. Take appropriate measures for safety according to the particular use and way in case of special handling. Inquiry about descriptions should be addressed to Business Planning Department, Chemical Products Division, Lion Corporation.

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