


<b>MSDS</b>	<b>Material Safety Data Sheet</b>
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## PARAFFIN, LIQUID

## 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

PRODUCT NAME	Paraffin, liquid
RECOMMENDED USE & RESTRICTIONS ON USE	Research use only
INFORMATION OF MANUFACTURER/IMPORTER/SUPPLIER	
COMPANY	Eurolab <sup>®</sup>
ADDRESS	54-58 High Street Edgware, Middlesex, HA8 7EJ, UK
EMERGENCY PHONE	
E-MAIL ADDRESS	

## 2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION	Serious eye damage/Eye irritation : Category 2 Skin sensitization : Category 1 Germ cell mutagenicity : Category 2 Specific target organ systemic toxicity Repeated exposure : Category 1 Aspiration toxicity : Category 1 Chronic aquatic toxicity : Category 4	
LABEL ELEMENTS	PICTOGRAM	
	HAZARD SYMBOL	DANGER
	HAZARD STATEMENTS	May be fatal if swallowed and enters airways May cause an allergic skin reaction Causes serious eye irritation. Suspected of causing genetic defects. Causes damage to organs through prolonged or repeated exposure. May cause long lasting harmful effects to aquatic life

	<p>PRECAUTIONARY STATEMENTS</p>	<p>Obtain special instructions before use.</p> <p>Do not handle until all safety precautions have been read and understood.</p> <p>Do not breathe dust/fume/gas/mist/vapours/spray.</p> <p>Avoid breathing dust/fume/gas/mist/vapours/spray.</p> <p>Wash thoroughly after handling.</p> <p>Do not eat, drink or smoke when using this product.</p> <p>Contaminated work clothing should not be allowed out of the workplace.</p> <p>Avoid release to the environment.</p> <p>Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>Use personal protective equipment as required.</p> <p>IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</p> <p>IF ON SKIN: Gently wash with plenty of soap and water.</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. Specific treatment (see ... on this label).</p> <p>Do NOT induce vomiting.</p> <p>If skin irritation or rash occurs: Get medical advice/attention.</p> <p>If eye irritation persists: Get medical advice/attention.</p> <p>Take off contaminated clothing and wash before reuse.</p> <p>Store locked up.</p> <p>Dispose of this material and its container in accordance with local/regional/national/international regulation.</p>
<p>OTHER HAZARDS (NFPA)</p>	<p>Health</p> <p>Fire</p> <p>Reactivity</p>	<p>2</p> <p>1</p> <p>0</p>

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMILCAL IDENTITY	SYNONYMS	CAS NUMBER	ASSAY
Paraffin, liquid	Mineral oil	8012-95-1	-

### 4. FIRST AID MEASURES

GENERAL ADVICE	Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.
IN CASE OF EYE CONTACT	Remove any contact lenses at once. Flush eyes well with a large amount of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.
IN CASE OF SKIN CONTACT	Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.
IF INHALED	Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, consult a physician.
IF SWALLOWED	Rinse mouth, give plenty of water to dilute the substance. Never give anything by mouth to an unconscious person. Consult a physician.

### 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	Carbon dioxide, dry chemical powder, foam Do not use water (Not effective)
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL	Toxic, irritating fumes or smoke may be emitted.
SPECIAL PROTECTIVE	Firemen should wear normal protective equipment(full bunker gear)and

EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:	positive-pressure self-contained breathing apparatus.
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## 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Remove ignition sources and ventilate the area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes.
ENVIRONMENTAL PRECAUTIONS	Prevent spills from entering sewers, watercourses or low areas.
METHODS FOR CLEANING UP	Do not touch spilled material without suitable protection. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Put all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose of contaminated clothing.

## 7. HANDLING AND STORAGE

PRECAUTION FOR SAFE HANDLING	Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Handle material with suitable protection away from source of heat or ignition and use non-sparking type tools.
CONDITIONS FOR SAFE STORAGE	Store away from sunlight in well-ventilated dry place at room temperature (preferably cool place). Keep container tightly closed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE STANDARDS	ACGIH	TWA : 5mg /m <sup>3</sup>
APPROPRIATE ENGINEERING CONTROLS:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.	
INDIVIDUAL PROTECTION	RESPIRATORY PROTECTION	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose

MEASURES		combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup Sigma-Aldrich - 270997 Page 4 of 7 to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
	EYE PROTECTION	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
	SKIN PROTECTION	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
	BODY PROTECTION	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	FORM	Liquid
	COLOR	Colorless
ODOUR		Odorless
ODORODOUR THRESHOLD VALUE		No data
pH		No data
FREEZING POINT :		No data
INITIAL BOILING POINT		360 °C
FLASH POINT		230 °C
EVAPORATING RATE		No data

FLAMMABILITY(solid, gas)		No data
EXPLOSIVE LIMITS		No data
VAPOR PRESSURE		0.01 Pa (<0.01 Pa at 20°C)
SOLUBILITY IN	WATER	No data
VAPOR DENSITY		No data
RELATIVE DENSITY		0.86 (at 20°C)
PARTITION COEFFICIENT: N-OCTANOL/WATER		6.1
AUTOIGNITION TEMPERATURE		300 °C
DECOMPOSITION TEMPERATURE		No data
VISCOSITY		No data
MOLECULAR WEIGHT		No data

## 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY & POSSIBILITY OF HAZARDOUS REACTIONS	Stable under recommended storage conditions.
CONDITIONS TO AVOID	Sunlight, heat, open flames, high temperature, sparks, static electrical charge, other ignition sources
INCOMPATIBLE MATERIALS	Oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon monoxide may be formed.

## 11. TOXICOLOGICAL INFORMATION

INFORMATION ON THE LIKELY ROUTES OF EXPOSURES:	No data	
HEALTH HAZARD INFORMATION	ACUTE TOXICITY	LD50(oral,mouse) : 22000 mg/kg
	SKIN CORROSION/ SKIN IRRITATION	Rabbit; STANDARD DRAIZE TEST(100mg/24H): Mild

	EYE DAMAGE/ EYE IRRITATION	Rabbit; STANDARD DRAIZE TEST(500mg): Moderate
	RESPIRATORY SENSITIZATION	No data
	SKIN SENSITIZATION	No data
	CARCINOGENICITY	IARC: No data OSHA: No data ACGIH: No data NTP: No data EU CLP: No data
	GERM CELL MUTAGENICITY	AMES test; Salmonella typhimurium strain TA98?10- 10000µg/plate ;Negative (ESIS)
	TOXIC TO REPRODUCTION	No data
	SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE	No data
	SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE	No data
	ASPIRATION HAZARD	This substance is a hydrocarbon and has a kinematic viscosity <=20.5mm <sup>2</sup> /s.

## 12. ECOLOGICAL INFORMATION

ECOTOXICITY	TO FISH	LC50 > 100 mg/L/96hr <i>Lepomis macrochirus</i>
	TO CRUSTACEA	No data
	TO OTHER AQUATIC LIFE	No data
PERSISTENCE/ DEGRADABILITY	PERSISTENCE	log Kow 6.1
	DEGRADABILITY	No data
BIOACCUMULATION POTENTIAL	ACCUMUKATION	BCF 314.1
	BIODEGRADABILITY	No data



MOBILITY IN SOIL	No data
OTHER ADVERSE EFFECTS	No data

### 13. DISPOSAL CONSIDERATION

DISPOSAL METHODS	Use only licensed transporters and permitted facilities for waste disposal.
DISPOSAL CONSIDERATIONS	Dispose of this material and its container in accordance with local/regional/national/international regulation.

### 14. TRANSPORT INFORMATION

IATA	
UN NUMBER	No data
UN PROPER SHIPPING NAME	No data
TRANSPORT HAZARD CLASS	No data
PACKING GROUP	No data
MARINE POLLUTANT	No data
SPECIAL PRECAUTIONS FOR USER	
IN CASE OF FIRE	No data
IN CASE OF LEAK	No data

### 15. REGULATORY INFORMATION

Occupational Safety and Health Act		Substance Requiring Exposure Standards
Toxic Chemicals Control Act		Not listed
Safety Control of Dangerous Substance Act		4-4 ; 6000L
Wastes Control Act		Not listed
Persistent Organic Pollutants Control Act		Not listed
US REGULATIONS	OSHA	Not listed
	CERCLA	Not listed
	EPCRA302	Not listed

	EPCRA304	Not listed
	EPCRA313	Listed
	ROTTERDAM CONVENTION	Not listed
	STOCKHOLM CONVENTION	Not listed
	MONTREAL PROTOCOL	Not listed
EU CLASSIFICATION INFORMATION	CLASSIFICATION	Not listed
	RISK PHRASES	Not listed
	SAFETY PHRASES	Not listed

<b>16. OTHER INFORMATION</b>	
ORIGINATED DATE	2012.01.01
REVISION NUMBER AND DATE	Revision number: 0 Final revision data: 2012.01.01
OTHER	The information in this MSDS is based on several references and the present state of our knowledge. However, the MSDS dose not always cover all information about product. The information in this MSDS is only provision of information, and It does not represent any guarantee of the properties of the product.