

# Material Safety Data Sheet

## Kerosol 94/125

Version 1.00

Revision Date 19.08.2005



### 1. Identification of the substance/preparation and of the company/undertaking

<b>Trade name</b>	<b>Kerosol 94/125</b>
<b>Use</b>	Solvents
<b>Company</b>	Hitech Chemicals

### 2. Composition/information on ingredients

#### octane [and isomers]

content:  $\geq 60.00$  -  $< 70.00$  %

**CAS-No.** 111-65-9  
**Symbol(s)** F, Xn, N

**Index-No.** 601-009-00-8      **EG-Nr.:** 203-892-1  
**R-phrase(s)** -R11 -R38 -R50/53 -R65 -R67

#### heptane [and isomers]

content:  $\geq 30.00$  -  $< 40.00$  %

**CAS-No.** 142-82-5  
**Symbol(s)** F, Xn, N

**Index-No.** 601-008-00-2      **EG-Nr.:** 205-563-8  
**R-phrase(s)** -R11 -R38 -R50/53 -R65 -R67

#### n-hexane

content:  $\geq 1.00$  -  $< 3.00$  %

**CAS-No.** 110-54-3  
**Symbol(s)** F, Xn, N

**Index-No.** 601-037-00-0      **EG-Nr.:** 203-777-6  
**R-phrase(s)** -R11 -R38 -R48/20 -R62 -R65 -R67 -R51/53

For the full text of the R phrases mentioned in this Section, see Section 16.

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### 3. Hazards identification

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#### Identification of the risks

R11	Highly flammable.
R38	Irritating to skin.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.

### 4. First aid measures

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<b>General advice</b>	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Consult a physician.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Call a physician immediately.
<b>Ingestion</b>	Do not induce vomiting without medical advice. Call a physician immediately.

### 5. Fire-fighting measures

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<b>Suitable extinguishing media</b>	foam, water spray, dry powder
<b>Special protective equipment for fire-fighters</b>	Wear self-contained breathing apparatus and protective suit.
<b>Further information</b>	Cool containers / tanks with water spray.

### 6. Accidental release measures

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<b>Personal precautions</b>	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist.
<b>Environmental precautions</b>	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material and dispose of as

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*hazardous waste.*

**Additional advice**

*Never return spills in original containers for re-use.*

### 7. Handling and storage

#### Handling

**Safe handling advice**

*Avoid inhalation of vapour or mist. Wear personal protective equipment.*

**Advice on protection**

**against fire and explosion**

*Keep away from heat and sources of ignition. Use only explosion-proof equipment.*

#### Storage

**Requirements for storage areas and containers**

*Keep containers tightly closed in a dry, cool and well-ventilated place.*

### 8. Exposure controls / personal protection

#### Components with workplace control parameters

##### NATIONAL OCCUPATIONAL EXPOSURE LIMITS

*no data available*

##### EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
N-HEPTANE	TWA	2,085 mg/m <sup>3</sup>	05 2003	EU Exposure Limit Values
	TWA	500 ppm	05 2003	EU Exposure Limit Values

#### Engineering measures

*Provide sufficient air exchange and/or exhaust in work rooms.*

#### Personal protective equipment

**Respiratory protection**

*In case of insufficient ventilation wear suitable respiratory equipment.*

**Hand protection**

*solvent-resistant gloves*

**Eye protection**

*safety glasses with side-shields*

**Skin and body protection**

*protective suit, safety shoes*

**Hygiene measures**

*Wash hands before breaks and immediately after handling the*

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**Protective measures**      *product.*  
*Wear suitable protective equipment.*

### 9. Physical and chemical properties

**Form**                              *liquid*  
**Colour**                             *colourless*  
**Odour**                              *slight*  
**Melting point/range**         *< -35 °C*  
**Boiling point/range**  
**Flash point**                      *< 5 °C*  
**Ignition temperature**         *204 °C*  
**Lower explosion limit**         *1.07 %(V)*  
**Upper explosion limit**         *6.7 %(V)*  
**Vapour pressure**                *11.997 hPa*  
**Density**                            *0.696 g/cm<sup>3</sup>; 20 °C*  
**Water solubility**                *immiscible, insoluble*  
**Solubility in other solvents**     *Medium: Diethylether*  
**Viscosity, kinematic**          *0.53 mm<sup>2</sup>/s*  
**Relative vapour density**       *4.42*

### 10. Stability and reactivity

**Materials to avoid**             *oxidizing agents, reducing agents*  
**Hazardous decomposition products**     *Carbon oxides*

### 11. Toxicological information

**Acute inhalation toxicity**     *n-Octane:*  
*LC50 rat: 118 mg/m<sup>3</sup>; literature value; 4 h*  
*n-Octane:*  
*LCLo mouse: 80,000 mg/m<sup>3</sup>; literature value; 2 h*  
*Heptane:*  
*LC50 rat: 103 mg/m<sup>3</sup>; literature value; 4 h*  
*Heptane:*  
*LCLo mouse: 75,000 mg/m<sup>3</sup>; literature value; 2 h*

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### 12. Ecological information

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#### Ecotoxicity effects

**Toxicity to daphnia**      *n*-Octane:  
EC50 *Daphnia magna*: 0.38 mg/l; 48 h; literature value

### 13. Disposal considerations

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**Product**      Dispose of in accordance with local regulations.  
**Contaminated packaging**      Store containers and offer for recycling of material when in accordance with the local regulations.

### 14. Transport information

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**ADR**      UN-No: 3295; Class: 3; Packaging group: II; F1; Description of the goods: HYDROCARBONS, LIQUID, N.O.S. (heptane, octane)  
**RID**      UN-No: 3295; Class: 3; Packaging group: II; F1; Description of the goods: HYDROCARBONS, LIQUID, N.O.S. (heptane, octane)  
**ADNR**      UN-No: 3295; Class: 3; Packaging group: II; Description of the goods: HYDROCARBONS, LIQUID, N.O.S. (heptane, octane)  
**IMDG**      UN-No: 3295; Class: 3; EmS: F-E, S-D; Packaging group: II; Description of the goods: HYDROCARBONS, LIQUID, N.O.S. (heptane, octane)  
**ICAO/IATA**      UN-No : 3295; Class: 3; Packaging group: II; Description of the goods: Hydrocarbons, liquid, n.o.s. (heptane, octane)

### 15. Regulatory information

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#### Labelling

**Regulatory base**      1999/45/EC  
**Symbol(s)**      Xn: Harmful  
                                 N: Dangerous for the environment  
                                 F: Highly flammable  
**R-phrase(s)**      R11: Highly flammable.  
                                 R38: Irritating to skin.  
                                 R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
                                 R65: Harmful: may cause lung damage if swallowed.

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R67: Vapours may cause drowsiness and dizziness.

### S-phrase(s)

S 9: Keep container in a well-ventilated place.

S16: Keep away from sources of ignition - No smoking.

S33: Take precautionary measures against static discharges.

S37: Wear suitable gloves.

S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## 16. Other information

### Full text of R-phrases referred to under sections 2 and 3:

R11	Highly flammable.
R38	Irritating to skin.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.

This MSDS summarises at the date of issue our best knowledge of the health, safety and environmental hazard information related to the product, and in particular how to safely handle, use, store and transport the product in the workplace. Since we cannot anticipate or control conditions under which the product may be handled, used, stored or transported, each user must, prior to usage, review this MSDS in the context of how the user intends to handle, use, store or transport the product in the workplace and beyond, and communicate such information to all relevant parties. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

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