

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Harmony in  
Chemistry

**Trade name :** Loesol 80 - Spezialbenzin 1 l (066110330000-0201)

**Revision date :** 08.11.2016

**Version (Revision) :** 22.0.0 (21.1.0)

**Print date :** 27.04.2017

## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

### 1.1 Product identifier

Loesol 80 - Spezialbenzin 1 l

HYDROCARBONS, C6-C7, N-ALKANES, ISO-ALKANES, CYCLICS < 5% N-HEXANE ; EC No. : 921-024-6 ; INDEX No. : 649-328-00-1 ; REACH registration No. : 01-2119475514-35

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### Relevant identified uses

Coatings and paints, thinners, paint removers

Solvent

### 1.3 Details of the supplier of the safety data sheet

**Supplier :** Chemische Werke Kluthe  
Werk Oberhausen

**Street :** Feldstraße 55

**Postal code/city :** D 46149 Oberhausen

**Telephone :** +49208 / 9948-166

**Telefax :** +49208 / 9948-151

**Information contact :** sds.ob@kluthe.com

### 1.4 Emergency telephone number

+49177 / 2144737 (24 h)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

Asp. Tox. 1 ; H304 - Aspiration hazard : Category 1 ; May be fatal if swallowed and enters airways.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Fam. Liq. 2 ; H225 - Flammable liquids : Category 2 ; Highly flammable liquid and vapour.

STOT SE 3 ; H336 - STOT-single exposure : Category 3 ; May cause drowsiness or dizziness.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

##### Hazard pictograms



Flame (GHS02) · Health hazard (GHS08) · Environment (GHS09) · Exclamation mark (GHS07)

##### Signal word

Danger

##### Hazard statements

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

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H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

## Precautionary statements

P102 Keep out of reach of children.  
P101 If medical advice is needed, have product container or label at hand.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P271 Use only outdoors or in a well-ventilated area.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P405 Store locked up.  
P501 Dispose of contents/container according to local regulations

## 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

ORGANIC SOLVENTS

### 3.1 Substances

**Substance name :** HYDROCARBONS, C6-C7, N-ALKANES, ISO-ALKANES, CYCLICS < 5% N-HEXANE

**INDEX No. :** 649-328-00-1

**EC No. :** 921-024-6

**REACH No. :** 01-2119475514-35

**Purity :** ≥ 90 - < 100 % [mass]

#### Hazardous impurities

N-HEXANE ; REACH registration No. : 01-2119480412-44 ; EC No. : 203-777-6; CAS No. : 110-54-3

Weight fraction : ≥ 1 - < 5 %

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Asp. Tox. 1 ; H304 Repr. 2 ; H361f STOT RE 2 ; H373 Skin Irrit. 2 ; H315 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove affected person from the danger area and lay down. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

#### After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### After ingestion

Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is

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conscious) and obtain immediate medical attention. Let water be drunken in little sips (dilution effect).

## 4.2 Most important symptoms and effects, both acute and delayed

Dizziness Headache Impairment of vision Nausea Vomiting

## 4.3 Indication of any immediate medical attention and special treatment needed

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam Carbon dioxide (CO<sub>2</sub>) Extinguishing powder Water spray

#### Unsuitable extinguishing media

High power water jet

### 5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

### 5.4 Additional information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely. Co-ordinate fire-fighting measures to the fire surroundings.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation. See protective measures under point 7 and 8.

### 6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

### 6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly.

### 6.4 Reference to other sections

None

## SECTION 7: Handling and storage



### 7.1 Precautions for safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Only use the material in places where open light, fire and other flammable sources can be kept away.

#### Protective measures

All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists

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Take precautionary measures against static discharges.

## Measures to prevent fire

Keep away from sources of ignition. - No smoking. Usual measures for fire prevention. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Provide earthing of containers, equipment, pumps and ventilation facilities. Use only antistatically equipped (spark-free) tools. Wear anti-static footwear and clothing. Take precautionary measures against static discharges.

## Measures to prevent aerosol and dust generation

Vapours/aerosols should be exhausted directly at the point of origin. Use only in well-ventilated areas.

## Environmental precautions

Shafts and sewers must be protected from entry of the product.

## 7.2 Conditions for safe storage, including any incompatibilities

### Hints on joint storage

**Storage class (VCI):** 3

**Storage class (TRGS 510) :** 3

## 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

HYDROCARBONS, C6-C7, N-ALKANES, ISO-ALKANES, CYCLICS < 5% N-HEXANE

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 200 ppm / 1000 mg/m<sup>3</sup>

Peak limitation : 4

Remark : 31

Version : 05.02.2004

#### DNEL/DMEL and PNEC values

##### DNEL/DMEL

Limit value type : DNEL Consumer (systemic)

Exposure route : Dermal

Exposure frequency : Langzeit - systemisch

Limit value : 149 mg/kg

Limit value type : DNEL Consumer (systemic)

Exposure route : Inhalation

Exposure frequency : Langzeit - systemisch

Limit value : 447 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (systemic)

Exposure route : Oral

Exposure frequency : Langzeit - systemisch

Limit value : 149 mg/kg

Limit value type : DNEL worker (systemic)

Exposure route : Dermal

Exposure frequency : Langzeit - systemisch

Limit value : 300 mg/kg

Limit value type : DNEL worker (systemic)

Exposure route : Inhalation

Exposure frequency : Langzeit - systemisch

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Limit value : 2085 mg/m<sup>3</sup>

## 8.2 Exposure controls



### Personal protection equipment

#### Eye/face protection

Eye glasses with side protection

#### Skin protection

##### Hand protection

**Suitable gloves type :** Gloves with long cuffs

**Suitable material :** NBR (Nitrile rubber)

**Breakthrough time :** >= 480 min

**Thickness of the glove material :** 0,5 mm

**Recommended glove articles :** DIN EN 374

**Additional hand protection measures :** Check leak tightness/impermeability prior to use. Do not wear gloves near rotary machines and tools. In the case of wanting to use the gloves again, clean them before taking off and air them well.

**Remark :** The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### Body protection

lab coat Overall

**Suitable protective clothing :** For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Chemical resistant safety shoes Only wear fitting, comfortable and clean protective clothing.

**Required properties :** antistatic. flame-resistant heat-resistant

**Recommended material :** Natural fibres (e.g. cotton) heat-resistant synthetic fibres

#### Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Respiratory protection necessary at: exceeding exposure limit values / aerosol or mist formation.

##### Suitable respiratory protection apparatus

Filtering device (full mask or mouthpiece) with filter : A

### General health and safety measures

Wash hands before breaks and after work. Apply skin care products after work.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** liquid

**Colour :** colourless

**Odour :** paraffin

#### Safety relevant basis data

**Melting point/melting range :**

not determined

**Initial boiling point and boiling range :** ( 1013 hPa )

80,0 - 110,0 °C

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<b>Decomposition temperature :</b>		No data available
<b>Flash point :</b>	approx.	-20,0 °C DIN 51755 part 1
<b>Ignition temperature :</b>		250,0 °C
<b>Oxidising liquids :</b>		No data available.
<b>Lower explosion limit :</b>		0,8 Vol-%
<b>Upper explosion limit :</b>		6,5 Vol-%
<b>Explosive properties :</b>		No data available.
<b>Vapour pressure 20°C):</b>	( 20 °C )	No data available
<b>Dichte :</b>	( 15 °C ) approx.	0,714 g/cm <sup>3</sup>
<b>Water solubility :</b>	( 20 °C )	not miscible
<b>pH-value:</b>	( 20 °C / conc. )	not applicable
<b>log P O/W :</b>		No data available
<b>Cinematic viscosity :</b>	( 40 °C ) <	20,5 mm <sup>2</sup> /s
<b>Odour threshold :</b>		No data available
<b>Relative vapour density :</b>	( 20 °C )	No data available (air = 1)
<b>Vapourisation rate :</b>		No data available
<b>Maximum VOC content (EC) :</b>	( 20 °C )	100,0 Wt % gem. RL 1999/13/EG
<b>Max. VOC content (Decopaint):</b>	( 20 °C )	100,0 Wt % gem. RL 2004/42/EG

## 9.2 Other information

no more data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions(See section 7).

### 10.3 Possibility of hazardous reactions

Formation of explosive mixtures with: Air. possible

### 10.4 Conditions to avoid

Only use the material in places where open light, fire and other flammable sources can be kept away.

### 10.5 Incompatible materials

Alkali (lye), concentrated. Acid, concentrated. Oxidising agent, strong.

### 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

Based on available data, the classification criteria are not met.

#### Acute oral toxicity

Parameter :	LD50
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg

#### Acute dermal toxicity

Parameter :	LD50
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Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg

## Irritant and corrosive effects

### Primary irritation to the skin

Causes skin irritation.

### Irritation to eyes

Based on available data, the classification criteria are not met.

## Sensitisation

Based on available data, the classification criteria are not met.

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

### Carcinogenicity

Based on available data, the classification criteria are not met.

### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

### Reproductive toxicity

Based on available data, the classification criteria are not met.

## STOT-single exposure

May cause drowsiness or dizziness.

## STOT-repeated exposure

Based on available data, the classification criteria are not met.

## Aspiration hazard

May be fatal if swallowed and enters airways.

## 11.2 Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

## 11.3 Symptoms related to the physical, chemical and toxicological characteristics

There are no data available on the preparation/mixture itself.

## 11.4 Other adverse effects

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc. Has degreasing effect on the skin.

## 11.5 Additional information

The product is classified and labelled according to EC directives or corresponding national laws. Classification according to Regulation (EC) No 1272/2008 [CLP] Toxicological data are not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

Toxic to aquatic life with long lasting effects.

#### Acute (short-term) fish toxicity

Parameter : NOELR  
Effective dose : 1 - 10 mg/l

#### Chronic (long-term) fish toxicity

Parameter : NOEC  
Effective dose : 1 - 10 mg/l

#### Acute (short-term) daphnia toxicity

Parameter : NOELR

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Effective dose : 1 - 10 mg/l

**Chronic (long-term) daphnia toxicity**

Parameter : NOEC

Effective dose : 0,1 - 1 mg/l

**Acute (short-term) algae toxicity**

Parameter : NOELR

Effective dose : 10 - 100 mg/l

**12.2 Persistence and degradability**

**Biodegradation**

Parameter : Biodegradation

Evaluation : Readily biodegradable (according to OECD criteria).

**12.3 Bioaccumulative potential**

Based on the n-octanol/water partition coefficient accumulation in organisms is possible.

**12.4 Mobility in soil**

negative.

**Adsorption/Desorption**

**12.5 Results of PBT and vPvB assessment**

negative.

**12.6 Other adverse effects**

No information available.

**12.7 Additional ecotoxicological information**

None

**SECTION 13: Disposal considerations**

Dispose according to legislation.

**13.1 Waste treatment methods**

**Product/Packaging disposal**

**Waste codes/waste designations according to EWC/AVV**

**Waste code product**

Waste code (91/689/EEC) : 07 01 04\*

**13.2 Additional information**

None

**SECTION 14: Transport information**

**14.1 UN number**

UN 3295

**14.2 UN proper shipping name**

**Land transport (ADR/RID)**

HYDROCARBONS, LIQUID, N.O.S.

**Sea transport (IMDG)**

HYDROCARBONS, LIQUID, N.O.S. ( HYDROCARBONS, C6-C7, N-ALKANES, ISO-ALKANES, CYCLICS < 5% N-HEXANE )

**Air transport (ICAO-TI / IATA-DGR)**

HYDROCARBONS, LIQUID, N.O.S.

**14.3 Transport hazard class(es)**

**Land transport (ADR/RID)**

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**Class(es) :** 3  
**Classification code :** F1  
**Hazard identification number (Kemler No.) :** 33  
**Tunnel restriction code :** D/E  
**Special provisions :** 640D · E 2  
**Hazard label(s) :** 3 / N

**Sea transport (IMDG)**

**Class(es) :** 3  
**EmS-No. :** F-E / S-D  
**Special provisions :** E 2  
**Hazard label(s) :** 3 / N

**Air transport (ICAO-TI / IATA-DGR)**

**Class(es) :** 3  
**Special provisions :** E 2  
**Hazard label(s) :** 3

**14.4 Packing group**

II

**14.5 Environmental hazards**

**Land transport (ADR/RID) :** Yes  
**Sea transport (IMDG) :** Yes (P)  
**Air transport (ICAO-TI / IATA-DGR) :** Yes

**14.6 Special precautions for user**

None

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulations**

**Water hazard class (WGK)**

Class : 2 (Hazardous to water)

**15.2 Chemical safety assessment**

No information available.

**SECTION 16: Other information**

**16.1 Indication of changes**

03. Hazardous ingredients · 11. Irritation to eyes · 12. Aquatic toxicity · 15. Water hazard class (WGK)

**16.2 Abbreviations and acronyms**

None

**16.3 Key literature references and sources for data**

None

**16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]**

No information available.

**16.4 Relevant H- and EUH-phrases (Number and full text)**

H225 Highly flammable liquid and vapour.

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H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

**16.5 Training advice**

None

**16.6 Additional information**

None

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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