

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

#### 1.1. Product identifier S446

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

##### Use of the substance/mixture

Reserved for industrial and professional use.

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

Parkell Inc.

300 Executive Drive

Edgewood, NY 11717 T (631) 249-1134

Authorized Representative in Europe (Regulatory affairs only)

Directa AB

P.O. Box 723, Finvids väg 8

SE-194 27 Upplands Väsby

Sweden

Emergency number: Infotrac 1-352-323-3500 (International, 24 hours)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment

R phrases:

Possible risk of impaired fertility.

Highly flammable.

Irritating to skin.

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Vapours may cause drowsiness and dizziness.

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

Hazard categories:

Flammable liquid: Flam. Liq. 2

Skin corrosion/irritation: Skin Irrit. 2

Reproductive toxicity: Repr. 2

Specific target organ toxicity - single exposure: STOT SE 3

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Highly flammable liquid and vapour.

Causes skin irritation.

May cause drowsiness or dizziness.

Suspected of damaging the unborn child.

May cause damage to organs through prolonged or repeated exposure.

Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

Signal word:

Danger

Pictograms:

GHS02-GHS07-GHS08-GHS09



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## Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

## Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

## Additional advice on labelling

Do not breathe vapour.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

chemical characterization (preparation): Silicon, Petroleum distillate.

#### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
203-777-6	n-hexane	65 %
110-54-3	Repr. Cat. 3, F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R11-62-48/20-65-38-67-51-53	
601-037-00-0	Flam. Liq. 2, Repr. 2, Asp. Tox. 1, STOT RE 2, Skin Irrit. 2, STOT SE 3, Aquatic Chronic 2; H225 H361f *** H304 H373 ** H315 H336 H411	

Full text of R-, H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

#### After contact with skin

After contact with skin, wash immediately with: Water and soap. Change contaminated clothing.

#### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

#### After ingestion

Immediately get medical attention.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Extinguishing powder. Sand. Foam. Carbon dioxide (CO<sub>2</sub>).

#### Unsuitable extinguishing media

High power water jet.

#### Additional information

Highly flammable. Formation of potentially explosive mixtures with: Air.

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## SECTION 6: Accidental release measures

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

Provide adequate ventilation. Keep away from sources of ignition - No smoking.

### 6.2. Environmental precautions

Do not empty into drains or the aquatic environment.

### 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).

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Keep container tightly closed. Avoid contact with eyes. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Use explosion-protected machinery, apparatus, suction equipment, appliances etc.

#### Further information on handling

Wear suitable protective clothing and gloves.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.  
Store only in original container.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
110-54-3	n-Hexane	20	72		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

#### Additional advice on limit values

exposure limit values: MAK: 50 ppm ( n-hexane:: 20 ml/m<sup>3</sup>; 72 mg/m<sup>3</sup>)  
Reproduction toxicity:

### 8.2. Exposure controls



#### Appropriate engineering controls

Ensure adequate ventilation of the storage area.

#### Protective and hygiene measures

When using do not eat or drink.

#### Eye/face protection

Tightly sealed safety glasses.

#### Hand protection

Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber).

#### Respiratory protection

The following must be prevented: inhalation.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state: liquid  
Colour: blue  
Odour: characteristic

#### Test method

pH-Value: not applicable

#### Changes in the physical state

Initial boiling point and boiling range: > 60 °C

point of decomposition:

Flash point: < -20 °C

#### Explosive properties

0,8 - 8,0 Vol. %

Ignition temperature: > 260 °C

Density: 0,8 g/cm<sup>3</sup>

Water solubility: insoluble

## SECTION 10: Stability and reactivity

### 10.4. Conditions to avoid

heat. Light. Remove all sources of ignition.

### 10.6. Hazardous decomposition products

Can be released in case of fire: Carbon monoxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

LD50: Rat. 2000 mg/kg

#### Irritation and corrosivity

Irritating to eyes, respiratory system and skin.

## SECTION 12: Ecological information

### 12.1. Toxicity

Preparation not tested.  
Harmful to aquatic organisms.

CAS No	Chemical name	Method	Dose	[h]   [d]	Species	Source
110-54-3	n-hexane					
	Acute fish toxicity	LC50	2,5 mg/l	96 h	Pimephales promelas	Geiger et al. 1990

### 12.2. Persistence and degradability

Preparation not tested.

### 12.3. Bioaccumulative potential

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## Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
110-54-3	n-hexane	3,9

## Further information

Do not empty into drains or the aquatic environment. Leakage into the environment must be prevented.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Carry out a burning of hazardous waste according to official regulations.

#### Waste disposal number of waste from residues/unused products

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing dangerous substances  
Classified as hazardous waste.

#### Waste disposal number of used product

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing dangerous substances  
Classified as hazardous waste.

## SECTION 14: Transport information

### Land transport (ADR/RID)

**14.1. UN number:** UN 1268  
**14.2. UN proper shipping name:** PETROLEUM DISTILLATES, N.O.S.  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Classification code: F1  
Special Provisions: 640D  
Limited quantity: 1 L  
Transport category: 2  
Hazard No: 33  
Tunnel restriction code: D/E

#### Other applicable information (land transport)

E2

### Marine transport (IMDG)

**14.1. UN number:** UN 1268  
**14.2. UN proper shipping name:** PETROLEUM DISTILLATES, N.O.S.  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II

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Hazard label: 3



Special Provisions: -  
Limited quantity: 1 L  
EmS: F-E, S-E

## Other applicable information (marine transport)

E2

## Air transport (ICAO)

**14.1. UN number:** UN 1268  
**14.2. UN proper shipping name:** PETROLEUM DISTILLATES, N.O.S.  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Limited quantity Passenger: 1 L  
IATA-packing instructions - Passenger: 353  
IATA-max. quantity - Passenger: 5 L  
IATA-packing instructions - Cargo: 364  
IATA-max. quantity - Cargo: 60 L

## Other applicable information (air transport)

E2  
: Y341

## 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



## SECTION 15: Regulatory information

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

#### National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

## SECTION 16: Other information

### Relevant R-phrases (Number and full text)

11 Highly flammable.  
38 Irritating to skin.  
48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
51 Toxic to aquatic organisms.  
53 May cause long-term adverse effects in the aquatic environment.  
62 Possible risk of impaired fertility.  
65 Harmful: may cause lung damage if swallowed.  
67 Vapours may cause drowsiness and dizziness.

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## Relevant H- and EUH-phrases (Number and full text)

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
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.

## Further Information

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*