

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Product name : 44920 - INDUSTRIAL SYSTEM OIL CL 68  
Product code : 44920

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Intended for general public  
Main use category : Industrial use, Professional use, Consumer use  
Function or use category : Hydraulic fluids and additives

**1.2.2. Uses advised against**

No additional information available

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

77 Lubricants B.V.  
NL- 1761 JA  
The Netherlands  
T +31 (0)78 6527652  
[technical@77lubricants.nl](mailto:technical@77lubricants.nl) - [www.77lubricants.nl](http://www.77lubricants.nl)

**1.4. Emergency telephone number**

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Hazardous to the aquatic environment – Chronic Hazard, H412  
Category 3  
Full text of H- and EUH-statements: see section 16

**Adverse physicochemical, human health and environmental effects**

Harmful to aquatic life with long lasting effects.

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Signal word (CLP) : -  
Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.  
Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P103 - Read carefully and follow all instructions.  
P273 - Avoid release to the environment.  
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

# 44920 - INDUSTRIAL SYSTEM OIL CL 68

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated heavy paraffinic substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627-25	$\geq 55 - < 75$	Not classified
Distillates (petroleum), solvent-dewaxed heavy paraffinic substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 64742-65-0 EC-No.: 265-169-7 EC Index-No.: 649-474-00-6 REACH-no: 01-2119471299-27	$\geq 25 - < 45$	Not classified
Hydrocarbons, C10-C13, aromatics, <1% naphthalene substance with national workplace exposure limit(s) (AT, BE, CZ, DK, ES, GB, IE, LV, NL, RO, SE, CH); substance with a Community workplace exposure limit	EC-No.: 922-153-0 REACH-no: 01-2119451097-39	< 0.3	Asp. Tox. 1, H304 Aquatic Chronic 2, H411 (M=0)
N-Phenyl-1-naphthylamin substance with national workplace exposure limit(s) (DE, NL)	CAS-No.: 90-30-2 EC-No.: 201-983-0	< 0.1	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based substance with national workplace exposure limit(s) (BE, BG, CZ, DK, ES, FI, GR, HU, IE, LT, LV, NL, PL, PT, SE, SK, IS, NO, CH); substance with a Community workplace exposure limit	CAS-No.: 72623-86-0 EC-No.: 276-737-9 EC Index-No.: 649-482-00-X REACH-no: 01-2119474878-16	< 0.1	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated light paraffinic substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH); substance with a Community workplace exposure limit	CAS-No.: 64742-55-8 EC-No.: 265-158-7 EC Index-No.: 649-468-00-3 REACH-no: 01-2119487077-29	< 0.1	Not classified
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DK, EE, HR, NL, PL, CH); substance with a Community workplace exposure limit	EC-No.: 920-901-0 REACH-no: 01-2119456810-40	< 0.1	Asp. Tox. 1, H304

# 44920 - INDUSTRIAL SYSTEM OIL CL 68

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
diphenylamine substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, IE, IT, LT, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 122-39-4 EC-No.: 204-539-4 EC Index-No.: 612-026-00-5 REACH-no: 01-2119488966-13	< 0.1	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1-naphthol substance with national workplace exposure limit(s) (LT, LV, RO)	CAS-No.: 90-15-3 EC-No.: 201-969-4 EC Index-No.: 604-029-00-5	< 0.1	Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318

### Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
N-Phenyl-1-naphthylamin	CAS-No.: 90-30-2 EC-No.: 201-983-0	(10 ≤ C < 100) STOT RE 2, H373
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	EC-No.: 920-901-0 REACH-no: 01-2119456810-40	(1 ≤ C < 100) EUH066

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a water jet since it may cause the fire to spread.

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

Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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### 5.3. Advice for firefighters

Precautionary measures fire	: Exercise caution when fighting any chemical fire.
Firefighting instructions	: Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

# 44920 - INDUSTRIAL SYSTEM OIL CL 68

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 6: Accidental release measures

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

General measures : Avoid spilling the product, as this might cause falls.

##### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Ensure good ventilation of the work station. Wear personal protective equipment.

Handling temperature :  $\leq 40$  °C

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Technical measures : Provide local exhaust or general room ventilation.

Storage conditions : Store in a well-ventilated place. Keep cool.

Storage temperature :  $\leq 40$  °C

Storage area : Store in a well-ventilated place. Store away from heat.

Special rules on packaging : Keep only in original container. Store in a closed container.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

###### Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

###### EU - Indicative Occupational Exposure Limit (IOEL)

IOEL TWA	5 mg/m <sup>3</sup>
IOEL STEL	10 mg/m <sup>3</sup>

# 44920 - INDUSTRIAL SYSTEM OIL CL 68

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)</b>	
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA) [1]	5 mg/m <sup>3</sup>
WEL STEL (OEL STEL)	10 mg/m <sup>3</sup>
<b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	5 mg/m <sup>3</sup>
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA) [1]	5 mg/m <sup>3</sup>
<b>Hydrocarbons, C10-C13, aromatics, &lt;1% naphthalene</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	5 mg/m <sup>3</sup>
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA) [1]	5 mg/m <sup>3</sup>
WEL STEL (OEL STEL)	10 mg/m <sup>3</sup>
<b>Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	5 mg/m <sup>3</sup>
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA) [1]	5 mg/m <sup>3</sup>
<b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	5 mg/m <sup>3</sup>
<b>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aromatics</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA [ppm]	1200 ppm
<b>diphenylamine (122-39-4)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	10 mg/m <sup>3</sup>
IOEL STEL	20 mg/m <sup>3</sup>
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA) [1]	10 mg/m <sup>3</sup>
WEL STEL (OEL STEL)	20 mg/m <sup>3</sup>

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

# 44920 - INDUSTRIAL SYSTEM OIL CL 68

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses

Eye protection			
Type	Field of application	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Protective gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	>0.35		EN ISO 374

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: light brown. amber.
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not applicable

# 44920 - INDUSTRIAL SYSTEM OIL CL 68

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Freezing point	: -24 °C (ASTM D7346)
Boiling point	: Not available
Flammability	: Non flammable.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 201 °C (ASTM D92)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 66 mm <sup>2</sup> /s @ 40°C (ASTM D7042)
Solubility	: insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 883 kg/m <sup>3</sup> @ 15°C (ASTM D4052)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

#### Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

LD50 oral (rat)	> 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test
LD50 dermal (rabbit)	> 5000 mg/kg 402 Acute Dermal Toxicity Test

# 44920 - INDUSTRIAL SYSTEM OIL CL 68

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)</b>	
LC50 inhalation (rat) (Vapours - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test
<b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>	
LD50 oral (rat)	> 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test
LD50 dermal (rabbit)	> 2000 mg/kg 402 Acute Dermal Toxicity Test
LC50 inhalation (rat) (mg/l)	> 5000 mg/l/4h
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test
<b>Hydrocarbons, C10-C13, aromatics, &lt;1% naphthalene</b>	
LD50 oral (rat)	> 6318 mg/kg OECD TG 401
LD50 dermal (rat)	> 2000 mg/kg OECD TG 402
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 4.778 mg/l/4h OECD TG 403
<b>N-Phenyl-1-naphthylamin (90-30-2)</b>	
LD50 oral (rat)	1625 mg/kg Animal: rat, Animal sex: male, 95% CL: 1201 - 2197
LD50 dermal (rabbit)	> 5000 mg/kg
<b>Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)</b>	
LD50 oral (rat)	> 5000 mg/kg 401 Acute Oral Toxicity Test
LD50 dermal (rabbit)	> 5000 mg/kg 402 Acute Dermal Toxicity Test
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test
<b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)</b>	
LD50 oral (rat)	> 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test
LD50 dermal (rabbit)	> 5000 mg/kg 402 Acute Dermal Toxicity Test
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test
<b>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aromatics</b>	
LD50 oral (rat)	> 5000 mg/kg
LD50 dermal (rabbit)	> 5000 mg/kg
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5 mg/l/4h
<b>diphenylamine (122-39-4)</b>	
LD50 oral (rat)	> 800 mg/kg
LD50 dermal (rabbit)	> 5000 mg/kg
<b>1-naphthol (90-15-3)</b>	
LD50 oral (rat)	1870 mg/kg
LD50 dermal (rabbit)	880 mg/kg
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 97 mg/l/4h
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified



# 44920 - INDUSTRIAL SYSTEM OIL CL 68

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

<b>N-Phenyl-1-naphthylamin (90-30-2)</b>	
NOAEL (animal/male, F0/P)	< 40 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test)
NOAEL (animal/female, F0/P)	< 46 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test)
STOT-single exposure	: Not classified
<b>1-naphtol (90-15-3)</b>	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)</b>	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight
<b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408
<b>Hydrocarbons, C10-C13, aromatics, &lt;1% naphthalene</b>	
NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight OECD Guideline 408
NOAEL (subchronic, oral, animal/male, 90 days)	300 mg/kg bodyweight
<b>N-Phenyl-1-naphthylamin (90-30-2)</b>	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
<b>Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)</b>	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight/day Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
<b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)</b>	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight
<b>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aromatics</b>	
NOAEL (subchronic, oral, animal/male, 90 days)	1000 mg/kg bodyweight
<b>diphenylamine (122-39-4)</b>	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
<b>1-naphtol (90-15-3)</b>	
NOAEL (subchronic, oral, animal/male, 90 days)	130 mg/kg bodyweight
Aspiration hazard	: Not classified
<b>44920 - INDUSTRIAL SYSTEM OIL CL 68</b>	
Viscosity, kinematic	66 mm <sup>2</sup> /s @ 40°C (ASTM D7042)
<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)</b>	
Viscosity, kinematic	150 (1.99 – 847) mm <sup>2</sup> /s @40°C
<b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>	
Viscosity, kinematic	98 (98 – 108) mm <sup>2</sup> /s @40°C
<b>Hydrocarbons, C10-C13, aromatics, &lt;1% naphthalene</b>	
Viscosity, kinematic	4.25 mm <sup>2</sup> /s

# 44920 - INDUSTRIAL SYSTEM OIL CL 68

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

Viscosity, kinematic < 20.5 mm<sup>2</sup>/s @40°C

### Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

Viscosity, kinematic 1.99 – 847 mm<sup>2</sup>/s 40°C

### Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

Viscosity, kinematic 1.77 mm<sup>2</sup>/s

## 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

### Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

LC50 - Fish [1] > 100 mg/l Pimephales promelas  
EC50 - Crustacea [1] > 10000 mg/l Daphnia magna  
NOEC chronic fish > 1000 mg/l Oncorhynchus mykiss (14d)  
NOEC chronic crustacea > 10 mg/l Daphnia magna (21d)  
NOEC chronic algae > 100 mg/l Pseudokirchneriella subcapitata (72h)

### Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

LC50 - Fish [1] > 100 mg/l Pimephales promelas  
EC50 - Crustacea [1] > 10000 mg/l Daphnia magna  
EC50 72h - Algae [1] > 100 mg/l Pseudokirchneriella subcapitata  
NOEC chronic fish 1000 mg/l Oncorhynchus mykiss (14d)  
NOEC chronic crustacea 10 mg/l Daphnia magna (21d)  
NOEC chronic algae ≥ 100 mg/l Pseudokirchneriella subcapitata (72h)

### Hydrocarbons, C10-C13, aromatics, <1% naphthalene

LC50 - Fish [1] 3.6 mg/l Oncorhynchus mykiss (OECD 203)  
EC50 - Crustacea [1] 1.1 mg/l OECD 202  
ErC50 algae 3.8 mg/l 72h (Pseudokirchneriella subcapitata, OECD 201)  
NOEC chronic fish 0.103 mg/l 28 d (PETROTOX QSAR)  
NOEC chronic crustacea 0.179 mg/l 21 d (Daphnia magna, OECD 211)  
NOEC chronic algae 0.179 mg/l 72h (Pseudokirchneriella subcapitata, OECD 201)

### N-Phenyl-1-naphthylamin (90-30-2)

LC50 - Fish [1] 0.44 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)  
EC50 - Crustacea [1] 0.3 mg/l Daphnia magna

# 44920 - INDUSTRIAL SYSTEM OIL CL 68

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

<b>N-Phenyl-1-naphthylamin (90-30-2)</b>	
EC50 96h - Algae [1]	0.93 mg/l Pseudokirchneriella subcapitata
NOEC chronic crustacea	0.032 mg/l Daphnia magna (21d)
NOEC chronic algae	0.032 mg/l Daphnia magna (21d)
<b>Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)</b>	
LC50 - Fish [1]	> 100 mg/l Pimephales promelas
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Pseudokirchneriella subcapitata
NOEC chronic fish	1000 mg/l Oncorhynchus mykiss (14d)
NOEC chronic crustacea	10 mg/l Daphnia magna (21d)
NOEC chronic algae	≥ 100 mg/l Pseudokirchneriella subcapitata (72h)
<b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)</b>	
LC50 - Fish [1]	> 100 mg/l Pimephales promelas
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna
NOEC chronic fish	1000 mg/l Oncorhynchus mykiss (14d)
NOEC chronic crustacea	10 mg/l Daphnia magna (21d)
NOEC chronic algae	≥ 100 mg/l Pseudokirchneriella subcapitata (72h)
<b>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aromatics</b>	
LC50 - Fish [1]	> 1000 mg/l Oncorhynchus mykiss
EC50 - Crustacea [1]	> 1000 mg/l Daphnia magna
EC50 72h - Algae [1]	> 1000 mg/l Raphidocelis subcapitata
NOEC chronic algae	100 mg/l Raphidocelis subcapitata (72h)
<b>diphenylamine (122-39-4)</b>	
LC50 - Fish [1]	3.79 mg/l Pimephales promelas
EC50 - Crustacea [1]	2 mg/l Daphnia magna (OECD 202)
EC50 72h - Algae [1]	2.17 mg/l Desmodesmus subspicatus (OECD 201)
NOEC chronic fish	0.625 mg/l Oryzias latipes (21d)
NOEC chronic crustacea	0.125 mg/l Daphnia magna (OECD Test Guideline 202) (21d)
NOEC chronic algae	0.027 mg/l Pseudokirchnerella subcapitata (72h)
<b>1-naphthol (90-15-3)</b>	
LC50 - Fish [1]	0.33 mg/l M. cavasius
EC50 - Crustacea [1]	2.51 mg/l Daphnia magna
EC50 72h - Algae [1]	> 2.18 mg/l Pseudokirchneriella subcapitata
NOEC chronic crustacea	0.25 mg/l Daphnia magna (21d)
NOEC chronic algae	> 2.18 mg/l Pseudokirchneriella subcapitata (72h)
<b>12.2. Persistence and degradability</b>	
<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)</b>	
Biodegradation	31 % OECD 301F (28d)

# 44920 - INDUSTRIAL SYSTEM OIL CL 68

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

<b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>	
Persistence and degradability	Not readily biodegradable.
Biodegradation	31 % OECD TG 301 F (28d)
<b>Hydrocarbons, C10-C13, aromatics, &lt;1% naphthalene</b>	
Persistence and degradability	Readily biodegradable.
Biodegradation	70 % 28d OECD 301F
<b>N-Phenyl-1-naphthylamin (90-30-2)</b>	
Persistence and degradability	Not readily biodegradable.
Biodegradation	0 % 28d
<b>Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)</b>	
Biodegradation	31 % OECD TG 301 F (28d)
<b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)</b>	
Persistence and degradability	Not readily biodegradable.
Biodegradation	31 % 28 d OECD 301F
<b>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aromatics</b>	
Biodegradation	31.3 % 28 d Richtlijn test OECD 301F
<b>diphenylamine (122-39-4)</b>	
Biodegradation	26 % OECD TG 301 D (28d)
<b>1-naphtol (90-15-3)</b>	
Biodegradation	77.8 % OECD 301B (29d)
<b>12.3. Bioaccumulative potential</b>	
<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)</b>	
Bioconcentration factor (BCF REACH)	260
<b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.9 – 6
<b>Hydrocarbons, C10-C13, aromatics, &lt;1% naphthalene</b>	
Bioconcentration factor (BCF REACH)	5780
Partition coefficient n-octanol/water (Log Pow)	6.5
<b>N-Phenyl-1-naphthylamin (90-30-2)</b>	
Bioconcentration factor (BCF REACH)	1424
Partition coefficient n-octanol/water (Log Pow)	4.28
<b>Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	> 6
<b>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aromatics</b>	
Bioconcentration factor (BCF REACH)	2500
<b>diphenylamine (122-39-4)</b>	
Bioconcentration factor (BCF REACH)	151.36

# 44920 - INDUSTRIAL SYSTEM OIL CL 68

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### diphenylamine (122-39-4)

Partition coefficient n-octanol/water (Log Kow) 3.4

### 1-naphtol (90-15-3)

Partition coefficient n-octanol/water (Log Pow) 2.85

### 12.4. Mobility in soil

#### Hydrocarbons, C10-C13, aromatics, <1% naphthalene

Organic Carbon Normalized Adsorption Coefficient (Log Koc) 3.11 @ 20°C

#### Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

Ecology - soil Adsorbs into the soil.

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
European List of Waste (LoW, EC 2000/532) : 13 01 10\* - mineral based non-chlorinated hydraulic oils

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
Not regulated for transport				
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

# 44920 - INDUSTRIAL SYSTEM OIL CL 68

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### 14.6. Special precautions for user

#### Overland transport

No data available

#### Transport by sea

No data available

#### Air transport

No data available

#### Inland waterway transport

No data available

#### Rail transport

No data available

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals): Diphenylamine (122-39-4)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# 44920 - INDUSTRIAL SYSTEM OIL CL 68

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Supersedes	Modified	
	Revision date	Modified	
	Flammability (solid, gas)	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.1	Adverse physicochemical, human health and environmental effects	Added	
2.2	Precautionary statements (CLP)	Modified	
4.1	First-aid measures after skin contact	Added	
4.1	First-aid measures after inhalation	Added	
4.1	First-aid measures after ingestion	Added	
4.1	First-aid measures after eye contact	Added	
4.3	Other medical advice or treatment	Added	
5.1	Suitable extinguishing media	Added	
5.2	Hazardous decomposition products in case of fire	Added	
5.3	Protection during firefighting	Added	
6.1	Protective equipment	Added	
6.1	Emergency procedures	Added	
6.1	General measures	Added	
6.2	Environmental precautions	Added	
6.3	Methods for cleaning up	Added	
6.3	Other information	Added	
6.4	Reference to other sections (8, 13)	Added	
7.1	Precautions for safe handling	Added	
7.1	Hygiene measures	Added	
7.2	Storage conditions	Added	
8.2	Environmental exposure controls	Added	
8.2	Respiratory protection	Modified	
8.2	Hand protection	Modified	
8.2	Eye protection	Modified	
8.2	Appropriate engineering controls	Added	
8.2	Skin and body protection	Modified	
8.2	Personal protective equipment	Modified	
8.2	Materials for protective clothing	Modified	
9.1	Colour	Added	
9.1	Freezing point	Modified	

# 44920 - INDUSTRIAL SYSTEM OIL CL 68

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Indication of changes			
Section	Changed item	Change	Comments
9.1	Flash point	Modified	
9.1	Density	Modified	
9.1	Viscosity, kinematic	Modified	
10.1	Reactivity	Added	
10.2	Chemical stability	Added	
10.3	Possibility of hazardous reactions	Added	
10.4	Conditions to avoid	Added	
10.5	Incompatible materials	Added	
10.6	Hazardous decomposition products	Added	
12.1	Ecology - general	Added	
13.1	Waste treatment methods	Added	
13.1	European List of Waste (LoW, EC 2000/532)	Added	
15.2	Chemical safety assessment	Added	
16	Abbreviations and acronyms	Modified	

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development



# 44920 - INDUSTRIAL SYSTEM OIL CL 68

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Abbreviations and acronyms:

OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

### Full text of H- and EUH-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

# 44920 - INDUSTRIAL SYSTEM OIL CL 68

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

### Full text of H- and EUH-statements:

H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.