

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 4730 Penetrant Oil KRYO Spray 300 ml

Revision date: 31.01.2023

Product code: 70648

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

### 1.1. Product identifier

4730 Penetrant Oil KRYO Spray 300 ml

UFI: NFN9-P6U7-A00W-N2Y5

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

#### Use of the substance/mixture

Lubricants, greases, release products

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

Company name:	Kisling Deutschland GmbH
Street:	Salzstraße 15
Place:	D-74676 Niedernhall
Telephone:	+49 7940 5096161
E-mail:	info@kisling.com
Contact person:	Isabel Winter Telephone: +49 7941 92054087
E-mail:	info@kisling.com
Internet:	www.kisling.com

### 1.4. Emergency telephone number:

24 hr. emergency phone number +1 872 5888271 (KAR)  
Medicines & Poisons Info Office +356 2545 6508

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Aerosol 1; H222-H229  
Asp. Tox. 1; H304  
Skin Irrit. 2; H315  
STOT SE 3; H336  
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### Regulation (EC) No 1272/2008

#### Hazard components for labelling

Hydrocarbons C6-C7 n-alkanes - isoalkanes - cyclics - <5% n-hexane  
Hydrocarbons C9-C10 - n-alkanes - isoalkanes - cyclics - <2% aromatics

Signal word: Danger

Pictograms:



#### Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

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P211 smoking.  
 Do not spray on an open flame or other ignition source.  
 P251 Do not pierce or burn, even after use.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

#### Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

#### Pictograms:



#### Hazard statements

H222-H229-H336-H412

#### Precautionary statements

P102-P210-P211-P251-P410+P412

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Lubricants, greases, release products

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
64742-49-0	Hydrocarbons C6-C7 n-alkanes - isoalkanes - cyclics - <5% n-hexane			5 - < 15 %
	921-024-6		01-2119475514-35	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411			
115-10-6	dimethyl ether			10 - 15 %
	204-065-8	603-019-00-8		
	Flam. Gas 1; H220			
119-36-8	Methyl salicylate			1 - < 5 %
	204-317-7		01-2119515671-44	
	Acute Tox. 4; H302			
	Hydrocarbons C9-C10 - n-alkanes - isoalkanes - cyclics - <2% aromatics			1 - < 5 %
	927-241-2		01-2119471843-32	
	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 3; H226 H336 H304 H412			
95-38-5	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol			< 0.1 %
	202-414-9			
	Acute Tox. 4, Skin Corr. 1C, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H373 H400 H410			

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

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#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
64742-49-0	921-024-6	Hydrocarbons C6-C7 n-alkanes - isoalkanes - cyclics - <5% n-hexane inhalation: LC50 = >20 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	5 - < 15 %
115-10-6	204-065-8	dimethyl ether inhalation: LC50 = 164000 ppm (gases)	10 - 15 %
119-36-8	204-317-7	Methyl salicylate oral: LD50 = 887 mg/kg	1 - < 5 %
	927-241-2	Hydrocarbons C9-C10 - n-alkanes - isoalkanes - cyclics - <2% aromatics dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 15000 mg/kg	1 - < 5 %
95-38-5	202-414-9	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol oral: LD50 = 1265 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1	< 0.1 %

#### Labelling for contents according to Regulation (EC) No 648/2004

15 % - &lt; 30 % aliphatic hydrocarbons, perfumes.

### 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).

##### After inhalation

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

##### After contact with skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. If skin irritation occurs: Get medical advice/attention.

##### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>), Dry extinguishing powder, Foam.

##### Unsuitable extinguishing media

Full water jet.

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

In case of fire and/or explosion do not breathe fumes.

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### SECTION 6: Accidental release measures

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

##### General advice

Remove all sources of ignition. Provide adequate ventilation.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

##### **Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Use only in well-ventilated areas. Keep away from sources of ignition - No smoking. Flammable vapours can accumulate in head space of closed systems. Caution! Transport usually takes place at temperatures above the flash point.

##### **Advice on protection against fire and explosion**

Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

##### **Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately.  
When using do not eat or drink.

#### **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.

##### **Hints on joint storage**

Do not store together with: Material, oxygen-rich, Oxidising, Pyrophoric or self-heating substances.

##### **Further information on storage conditions**

Keep away from heat.

### **SECTION 8: Exposure controls/personal protection**

#### **8.1. Control parameters**

##### **Occupational exposure limit values**

CAS No	Name of agent	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
115-10-6	Dimethylether	1000	1920		TWA (8 h)	

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#### DNEL/DMEL values

CAS No	Name of agent		
DNEL type	Exposure route	Effect	Value
64742-49-0	Hydrocarbons C6-C7 n-alkanes - isoalkanes - cyclics - <5% n-hexane		
Worker DNEL, long-term	inhalation	systemic	2035 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	773 mg/kg bw/day
115-10-6	dimethyl ether		
Worker DNEL, long-term	inhalation	systemic	1894 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	systemic	471 mg/m <sup>3</sup>
119-36-8	Methyl salicylate		
Worker DNEL, long-term	inhalation	systemic	17,5 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	systemic	285 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	6 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	4 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	systemic	213 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	3 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	1 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	5 mg/kg bw/day
	Hydrocarbons C9-C10 - n-alkanes - isoalkanes - cyclics - <2% aromatics		
Consumer DNEL, long-term	oral	systemic	46 mg/kg bw/day
Worker DNEL, long-term	dermal	systemic	77 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	46 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	871 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	systemic	185 mg/m <sup>3</sup>
95-38-5	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol		
Worker DNEL, long-term	dermal	systemic	0,06 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	0,46 mg/m <sup>3</sup>
Worker DNEL, acute	dermal	systemic	2 mg/kg bw/day
Worker DNEL, acute	inhalation	systemic	14 mg/m <sup>3</sup>

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#### PNEC values

CAS No	Name of agent		Value
Environmental compartment			
115-10-6	dimethyl ether		
Freshwater			0,155 mg/l
Freshwater (intermittent releases)			1,549 mg/l
Marine water			0,016 mg/l
Freshwater sediment			0,681 mg/kg
Marine sediment			0,069 mg/kg
Micro-organisms in sewage treatment plants (STP)			160 mg/l
Soil			0,045 mg/kg
119-36-8	Methyl salicylate		
Freshwater			0,0016 mg/l
Freshwater (intermittent releases)			0,016 mg/l
Marine water			0,00016 mg/l
Freshwater sediment			0,041 mg/kg
Marine sediment			0,004 mg/kg
Micro-organisms in sewage treatment plants (STP)			140 mg/l
Soil			0,007 mg/kg
95-38-5	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol		
Freshwater			0,00003 mg/l
Marine water			0,000003 mg/l
Freshwater sediment			0,376 mg/kg
Marine sediment			0,0376 mg/kg
Micro-organisms in sewage treatment plants (STP)			0,27 mg/l
Soil			0,075 mg/kg

#### 8.2. Exposure controls

##### Appropriate engineering controls

No data available

##### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Wear eye/face protection.

##### Hand protection

Wear protective gloves.

Breakthrough times and swelling properties of the material must be taken into consideration.

##### Skin protection

Wear suitable protective clothing. Wear anti-static footwear and clothing

##### Respiratory protection

Use suitable breathing apparatus. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

##### Environmental exposure controls

Do not allow to enter into surface water or drains.

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## SECTION 9: Physical and chemical properties

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

Physical state:	Aerosol	
Colour:	light yellow	
Odour:	characteristic	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and boiling range:		-42 °C
Lower explosion limits:		0,8 vol. %
Upper explosion limits:		32,0 vol. %
Flash point:		<0 °C
Auto-ignition temperature:		>200 °C
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.	
Density:		0,63 g/cm <sup>3</sup>

## SECTION 10: Stability and reactivity

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

Thermal decomposition can lead to the escape of irritating gases and vapours.

### 10.4. Conditions to avoid

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### 10.5. Incompatible materials

Oxidising agent, strong. . Alkali (lye)

### 10.6. Hazardous decomposition products

Hazardous decomposition products: Carbon dioxide (CO<sub>2</sub>) Carbon monoxide Nitrogen oxides (NO<sub>x</sub>)

## SECTION 11: Toxicological information

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

#### Toxicokinetics, metabolism and distribution

No data available

#### Acute toxicity

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

#### ATEmix calculated

ATE (oral) 0.0000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-49-0	Hydrocarbons C6-C7 n-alkanes - isoalkanes - cyclics - <5% n-hexane				
	oral	LD50 >5000 mg/kg	Rat		OECD 401
	dermal	LD50 >2000 mg/kg	Rat		OECD 402
	inhalation (4 h) vapour	LC50 >20 mg/l	Rat		OECD 403
115-10-6	dimethyl ether				
	inhalation (4 h) gas	LC50 164000 ppm	Rat	Study report (1979)	Ten male rats were administered the test
119-36-8	Methyl salicylate				
	oral	LD50 887 mg/kg	Rat	Food Cosmet Toxicol 2:327-343 (1964)	OECD Guideline 401
	Hydrocarbons C9-C10 - n-alkanes - isoalkanes - cyclics - <2% aromatics				
	oral	LD50 > 15000 mg/kg	Rat	Study report (1977)	OECD Guideline 401
	dermal	LD50 > 5000 mg/kg	Rabbit	Study report (1993)	OECD Guideline 402
95-38-5	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol				
	oral	LD50 1265 mg/kg	Rat		OECD 401

#### Irritation and corrosivity

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

#### STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons C6-C7 n-alkanes - isoalkanes - cyclics - &lt;5% n-hexane)

#### STOT-repeated exposure

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

#### Aspiration hazard

May be fatal if swallowed and enters airways.

#### Practical experience

May be harmful if swallowed, in contact with skin or if inhaled.

#### 11.2. Information on other hazards

##### Other information

No data available

### SECTION 12: Ecological information

#### 12.1. Toxicity

No data available



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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
115-10-6	dimethyl ether					
	Acute fish toxicity	LC50 mg/l	> 4100	96 h	Poecilia reticulata	Study report (1988) other: NEN 6504 Water - Determination of
	Acute algae toxicity	ErC50 mg/l	154,917	96 h	green algae	Other company data (2009) other: Data generated using ECOSAR v1.00
	Acute crustacea toxicity	EC50 mg/l	> 4400	48 h	Daphnia magna	Study report (1988) other: NEN6501: Water -Determination of
119-36-8	Methyl salicylate					
	Acute fish toxicity	LC50 mg/l	19,8	96 h	Pimephales promelas	Publication (1985) OECD Guideline 203
	Acute algae toxicity	ErC50	27 mg/l	72 h	Desmodesmus subspicatus	Study report (2010) OECD Guideline 201
	Acute crustacea toxicity	EC50	870 mg/l	48 h	Daphnia magna	Chemosphere 59 255-261 (2005) OECD Guideline 202

#### 12.2. Persistence and degradability

No data available

#### 12.3. Bioaccumulative potential

No data available

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
115-10-6	dimethyl ether	0,07
119-36-8	Methyl salicylate	2,55

#### BCF

CAS No	Chemical name	BCF	Species	Source
	Hydrocarbons C9-C10 - n-alkanes - isoalkanes - cyclics - <2% aromatics	144,3	calculated	Other company data (

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

No data available

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

No data available

#### Further information

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

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#### Disposal recommendations

Dispose of waste according to applicable legislation.

#### List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

#### List of Wastes Code - used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

#### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

#### Contaminated packaging

Completely emptied packages can be recycled. Dispose of waste according to applicable legislation.

## SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
Hazard label: 2.1



Classification code: 5F  
Special Provisions: 190 327 344 625  
Limited quantity: 1 L  
Excepted quantity: E0  
Transport category: 2  
Tunnel restriction code: D

#### Inland waterways transport (ADN)

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
Hazard label: 2.1



Classification code: 5F  
Special Provisions: 190 327 344 625  
Limited quantity: 1 L  
Excepted quantity: E0

#### Marine transport (IMDG)

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS

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**14.3. Transport hazard class(es):** 2.1

**14.4. Packing group:** -

Hazard label: 2.1



Special Provisions: 63, 190, 277, 327, 344, 381,959

Limited quantity: 1000 mL

Excepted quantity: E0

EmS: F-D, S-U

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

**14.1. UN number or ID number:** UN 1950

**14.2. UN proper shipping name:** AEROSOLS, flammable

**14.3. Transport hazard class(es):** 2.1

**14.4. Packing group:** -

Hazard label: 2.1



Special Provisions: A145 A167 A802

Limited quantity Passenger: 30 kg G

Passenger LQ: Y203

Excepted quantity: E0

IATA-packing instructions - Passenger: 203

IATA-max. quantity - Passenger: 75 kg

IATA-packing instructions - Cargo: 203

IATA-max. quantity - Cargo: 150 kg

## SECTION 15: Regulatory information

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

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 29, Entry 40, Entry 75

2010/75/EU (VOC): 95,947 % (604,465 g/l)

#### National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

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#### Abbreviations and acronyms

Flam. Gas: Flammable gases  
 Aerosol: Aerosols  
 Flam. Liq: Flammable liquid  
 Acute Tox: Acute toxicity  
 Asp. Tox: Aspiration hazard  
 Skin Corr: Skin corrosion  
 Skin Irrit: Skin irritation  
 STOT SE: Specific target organ toxicity - single exposure  
 STOT RE: Specific target organ toxicity - repeated exposure  
 Aquatic Acute: Acute aquatic hazard  
 Aquatic Chronic: Chronic aquatic hazard

#### Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Asp. Tox. 1; H304	Calculation method
Skin Irrit. 2; H315	Bridging principle "Aerosols"
STOT SE 3; H336	Bridging principle "Aerosols"
Aquatic Chronic 3; H412	Calculation method

#### Relevant H and EUH statements (number and full text)

H220 Extremely flammable gas.  
 H222 Extremely flammable aerosol.  
 H225 Highly flammable liquid and vapour.  
 H226 Flammable liquid and vapour.  
 H229 Pressurised container: May burst if heated.  
 H302 Harmful if swallowed.  
 H304 May be fatal if swallowed and enters airways.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.  
 H336 May cause drowsiness or dizziness.  
 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.  
 H411 Toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.

#### Further Information

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.

#### Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Surface modifier	-	-	14	-	-	-	-	3
2	Lubricating agent	PW, C	-	24	11	-	-	7, 80	

LCS: Life cycle stages

SU: Sectors of use

PC: Product categories

PROC: Process categories

ERC: Environmental release categories

AC: Article categories

TF: Technical functions

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