

## SILIRUB S

### 1. Bezeichnung des Stoffes bzw. der Zubereitung und des Unternehmens

#### 1.1 Bezeichnung des Stoffes oder der Zubereitung:

Produktname: SILIRUB S

#### 1.2 Verwendung des Stoffes/der Zubereitung:

Dichtungskitt

#### 1.3 Bezeichnung des Unternehmens:

SOUDAL N.V.  
 Everdongenlaan 18-20  
 B-2300 Turnhout  
 Tel: +32 14 42 42 31  
 Fax: +32 14 44 39 71  
 msds@soudal.com

#### 1.4 Notrufnummer:

24 Std/24 Std: +32 14 58 45 45 (BIG)

### 2. Mögliche Gefahren

#### DSD/DPD

Nach den Kriterien von Richtlinie(n) 67/548/EWG und/oder 1999/45/EG nicht als gefährlich eingestuft

### 3. Zusammensetzung/Angaben zu Bestandteilen

Name	CAS-Nr. EINECS/ELINCS	Konz.	Einstufung gemäß DSD/DPD	Einstufung gemäß CLP	Fußnote
Gasöl, nicht spezifiziert	64742-46-7 265-148-2	C>10%	Xn: R65 R66	Asp. 1; H304	(1)(2)
Triacetoxylethylsilan	17689-77-9 241-677-4	1%<C<5%	C; R34 R14	Hautätz. 1B; H314	(1)
(Benzol, Konz<0.1%)					

(1) Zu vollständigem Wortlaut der R- und H-Sätze: siehe Punkt 16

(2) Stoff, für den ein gemeinschaftlicher Grenzwert für die Exposition am Arbeitsplatz gilt

### 4. Erste-Hilfe-Maßnahmen

#### 4.1 Nach Einatmen:

Opfer an die frische Luft bringen  
 Atemschwierigkeiten: Arzt/medizinischen Dienst konsultieren

#### 4.2 Hautkontakt:

Sofort mit viel Wasser spülen  
 Verwendung von Seife ist erlaubt  
 Bei andauernder Reizung einen Arzt konsultieren

#### 4.3 Augenkontakt:

Mit Wasser spülen  
 Keine Neutralisationsmittel verwenden  
 Bei andauernder Reizung einen Augenarzt konsultieren

#### 4.4 Nach Verschlucken:

Mund mit Wasser spülen  
 Bei Unwohlsein: Arzt/medizinischen Dienst konsultieren

Hergestellt von: Brandweerinformatiecentrum voor Gevaarlijke Stoffen vzw (BIG)  
 Technische Schoolstraat 43 A, B-2440 Geel  
<http://www.big.be>

Überarbeitungsgrund: REACH

Überarbeitungsnummer: 0102

Produktnummer: 44799

Datum der Erstellung: 2007-01-23

Datum der Überarbeitung: 2010-12-24

## 5. Maßnahmen zur Brandbekämpfung

### 5.1 Geeignete Löschmittel:

- Mehrbereichsschaum
- Pulver
- Kohlensäure

### 5.2 Ungeeignete Löschmittel:

Keine ungeeigneten Löschmittel bekannt

### 5.3 Besondere Gefährdungen:

- Bei Erhitzung: erhöhte Brandgefahr
- Bei Verbrennung: Bildung von CO, CO<sub>2</sub> und kleineren Mengen von Schwefeloxid, Wasserstoffchlorid

### 5.4 Maßnahmen:

- Mit umweltgefährdendem Löschwasser rechnen
- Wasser sparsam einsetzen, wenn möglich auffangen/eindämmen

### 5.5 Besondere Schutzausrüstungen für die Brandbekämpfung:

- Handschuhe
- Schutzanzug
- Bei Erhitzung/Verbrennung: Preßluft-/Sauerstoffgerät

## 6. Maßnahmen bei unbeabsichtigter Freisetzung

### 6.1 Personenbezogene Vorsichtsmaßnahmen:

Siehe Punkt 8.2

### 6.2 Umweltschutzmaßnahmen:

- Freigewordenen Stoff eindämmen
- Boden- und Wasserverunreinigung vermeiden
- Eindringen in Kanalisationen verhindern
- Durch geeigneten Einschluss Umweltverschmutzungen vermeiden
- Siehe Punkt 13

### 6.3 Reinigungsverfahren:

- Verschütteten Feststoff mit Sand/Kieselgur abdecken
- Feststoff in verschließbaren Behältern sammeln
- Verschütteter Feststoff/Reste sorgfältig sammeln
- Verschmutzte Flächen mit Seifenlösung reinigen
- Nach der Arbeit Kleidung und Ausrüstung reinigen

## 7. Handhabung und Lagerung

### 7.1 Handhabung:

- Von offenen Flammen/Wärmequellen fernhalten
- Übliche Hygiene befolgen
- Behälter gut geschlossen halten

### 7.2 Lagerung:

#### Bedingungen für eine sichere Lagerung:

- An einem trockenen Ort aufbewahren
- Bei Zimmertemperatur aufbewahren
- Den gesetzlichen Vorschriften entsprechen
- Max. Lagerungszeit: 1 Jahre

#### Fernhalten von:

- Oxidationsmitteln

#### Geeignetes Verpackungsmaterial:

- Plast

### 7.3 Bestimmte Verwendung(en):

Hinweise des Herstellers beachten für diese Verwendungszwecke

## 8. Begrenzung und Überwachung der Exposition/persönliche Schutzausrüstung

# SILIRUB S

## 8.1 Expositionsgrenzwerte:

### 8.1.1 Exposition am Arbeitsplatz:

Die Grenzwerte werden unten aufgeführt, soweit diese verfügbar und anwendbar sind.

#### MAC (die Niederlande)

Olienevel (minerale olie)	Zeitlich gewichteter durchschnittlicher Expositionsgrenzwert	- 5 mg/m <sup>3</sup>
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#### Grenzwert (Belgien)

Olie(minerale)(nevel)	Kurzzeitwert	- ppm 10 mg/m <sup>3</sup>
	Zeitlich gewichteter durchschnittlicher Expositionsgrenzwert	- ppm 5 mg/m <sup>3</sup>

#### TLV (USA)

(Oil mist,mineral, highly refined)	Kurzzeitwert	(10)(oilmist) mg/m <sup>3</sup>
	Zeitlich gewichteter durchschnittlicher Expositionsgrenzwert	(5)(oilmist) mg/m <sup>3</sup>

### 8.1.2 Verfahren zur Probenahme:

Arbeitsstoff	Test	Nummer	Probenahmeverfahren	Bemerkung
Oil Mist (Mineral)	OSHA	ID 178SG		
Oil Mist (Mineral)	NIOSH	5026	Filter	
Oil Mist (Mineral)	OSHA	ID 128		

## 8.2 Begrenzung und Überwachung der Exposition:

### 8.2.1 Begrenzung und Überwachung der Exposition am Arbeitsplatz:

Regelmäßige Konzentrationsmessungen in der Luft vornehmen

Ins freie/unter örtlicher Absauganlage/mit Lüftung oder Atemschutz arbeiten

Persönliche Schutzausrüstungen:

#### a) Atemschutz:

Atemschutz nicht erforderlich bei normaler Handhabung

Gasmaske mit Filtertyp A bei Konz. in der Luft > Expositionsgrenzwert

#### b) Handschutz:

Handschuhe

#### c) Augenschutz:

Schutzbrille

#### d) Körperschutz:

Schutzkleidung

### 8.2.2 Begrenzung und Überwachung der Umweltexposition:

Siehe Punkt 6.2, 6.3 und 13

## 9. Physikalische und chemische Eigenschaften

### 9.1 Allgemeine Angaben:

Erscheinungsform	Paste
Geruch	Essiggeruch
Farbe	Produktfarbe ist zusammensetzungsbedingt

### 9.2 Wichtige Angaben zum Gesundheits- und Umweltschutz sowie zur Sicherheit:

Flammpunkt	> 100 °C
Relative Dichte	0.9
Löslich in Lösemitteln	Löslich in organischen Lösemitteln

### 9.3 Sonstige Angaben:

## 10. Stabilität und Reaktivität

### 10.1 Zu vermeidende Bedingungen:

#### Mögliche Brandgefahr

Wärmequellen

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## Stabilität

Stabil unter Normalbedingungen

## 10.2 Zu vermeidende Stoffe:

Oxidationsmitteln

## 10.3 Gefährliche Zersetzungsprodukte:

Bei Verbrennung: Bildung von CO, CO<sub>2</sub> und kleineren Mengen von Schwefeloxid, Wasserstoffchlorid

## 11. Toxikologische Angaben

### 11.1 Akute Toxizität:

Triacetoxyethylsilan

LD50 oral (Ratte)	2415 mg/kg
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### 11.2 Chronische Toxizität:

Keine Auflistung in Karzinogenitätsklasse (IARC,EG,TLV,MAK)

Keine Auflistung in Mutagenitätsklasse (EG,MAK)

Nicht als reproduktionsgiftig eingestuft (EG)

Gasöl, nicht spezifiziert

TLV - Krebserzeugend	(A4)
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### 11.3 Akute Effekte/Symptome:

#### Einatmen:

Keine Daten vorhanden

#### Hautkontakt:

NACH LANGFRISTIGER EXPOSITION/KONTAKT:

Trockene Haut

Rissige Haut

#### Augenkontakt:

Keine Daten vorhanden

#### Verschlucken:

Keine Daten vorhanden

### 11.4 Chronische Effekte:

Keine Wirkungen bekannt

## 12. Umweltspezifische Angaben

### 12.1 Ökotoxizität:

Triacetoxyethylsilan

LC50 Fische

Organismus	Wert	Dauer (Stunden)	Bemerkung
BRACHYDANIO RERIO	250 mg/l	96 Std	

EC50 Daphnia

Organismus	Wert	Dauer (Stunden)	Bemerkung
DAPHNIA MAGNA	62 mg/l	48 Std	

EC50 andere Wasserorganismen

Organismus	Wert	Dauer (Stunden)	Bemerkung
SCENEDESMUS SUBSPICATUS	73 mg/l	72 Std	

### 12.2 Mobilität:

Flüchtige organische Verbindungen (FOV)

< 2 %

FOV-Gehalt (g/l)

<20 g/l

Löslichkeit in/Reaktion mit Wasser

Literatur meldet: wasserunlöslich

Der Stoff sinkt im Wasser

## 12.3 Persistenz und Abbaubarkeit:

Keine Angaben zur biologischen Abbaubarkeit im Wasser

## 12.4 Bioakkumulationspotenzial:

Angaben zur Bioakkumulation nicht vorhanden

## 12.5 Ergebnis der Ermittlung der PBT-Eigenschaften:

Nicht anwendbar, basiert auf den vorhandenen Angaben

## 12.6 Andere schädliche Wirkungen:

Nicht gefährlich für die Ozonschicht (1999/45/EG)

## 13. Hinweise zur Entsorgung

### 13.1 Abfallvorschriften:

Abfallcode (Richtlinie 2008/98/EG, Entscheidung 2001/118/EG)

08 04 10 : Klebstoff- und Dichtmassenabfälle mit Ausnahme derjenigen, die unter 08 04 09 fallen

Abhängig von dem Industriezweig und dem Produktionsprozess können auch andere EURL-Kodes anwendbar sein

Kann als nicht gefährlicher Abfall betrachtet werden nach Richtlinie 2008/98/EG

### 13.2 Entsorgungshinweise:

Abfall entsorgen unter Beachtung der örtlichen und/oder nationalen Vorschriften

Nicht in die Kanalisation oder die Umwelt ableiten. An genehmigte Sondermüllsammelstelle abgeben

### 13.3 Verpackung:

Abfallcode Behälter (Richtlinie 2008/98/EG)

15 01 02 : Verpackungen aus Kunststoff

### 13.4 Entsorgung verschmutzter Gebinde:

Behälter vollständig entleeren

Übergabe an zugelassenes Entsorgungsunternehmen

Empfohlene Reinigung: Reinigung durch Wiederverwerter oder Fachbetrieb

## 14. Angaben zum Transport

### ADR

Beförderung	Nicht unterlegen
UN-Nummer	-
Klasse	
Verpackungsgruppe	
Nummer zur Kennzeichnung der Gefahr	
Klassifizierungscode	
Gefahrzettel	
Kenzeichen für umweltgefährdende Stoffe	

### RID

Beförderung	Nicht unterlegen
UN-Nummer	-
Klasse	
Verpackungsgruppe	
Klassifizierungscode	
Gefahrzettel	
Kenzeichen für umweltgefährdende Stoffe	

### ADNR

Beförderung	Nicht unterlegen
UN-Nummer	-
Klasse	
Verpackungsgruppe	
Klassifizierungscode	
Gefahrzettel	

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Kenzeichen für umweltgefährdende Stoffe	
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## IMO

Beförderung	Nicht unterlegen
UN-Nummer	-
Klasse	
Verpackungsgruppe	
Gefahrzettel	
Marine pollutant	
Kenzeichen für umweltgefährdende Stoffe	

## ICAO

Beförderung	Nicht unterlegen
UN-Nummer	-
Klasse	
Verpackungsgruppe	
Gefahrzettel	
Kenzeichen für umweltgefährdende Stoffe	

## 15. Angaben zu Rechtsvorschriften

### 15.1 EU-Gesetzgebung:

#### DSD/DPD

Nach Richtlinie 67/548/EWG und/oder Richtlinie 1999/45/EG nicht als gefährlich eingestuft

### 15.2 Nationale Vorschriften:

#### die Niederlande

Waterbezwaarlijkheid (die Niederlande) 6  
 Abfallidentifikation andere Abfallstofflisten LWCA (die Niederlande): KGA Kategorie 05

#### Deutschland

WGK 2  
 Einstufung wassergefährdend auf Komponentenbasis nach Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) vom 27. Juli 2005 (Anhang 4)

## 16. Sonstige Angaben

Alle in diesem Sicherheitsdatenblatt enthaltenen Informationen basieren auf den von BIG gelieferten Daten und Mustern. Die Angaben erfolgen nach bestem Vermögen und dem Kenntnisstand zum Zeitpunkt der Erstellung dieses Sicherheitsdatenblattes. Dieses Sicherheitsdatenblatt vermittelt lediglich Anleitungen, wie man die unter Punkt 1 aufgeführten Stoffe/Zubereitungen/Gemische sicher handhabt, verwendet, verbraucht, lagert, transportiert und entsorgt. Zu gegebenen Zeitpunkten werden neue Sicherheitsdatenblätter erstellt, von denen ausschließlich die jeweils aktuellste Fassung verwendet werden darf. Exemplare älterer Fassungen des Sicherheitsdatenblattes müssen vernichtet werden. Sofern nicht ausdrücklich anderweitig im Sicherheitsdatenblatt angegeben, gelten die in ihm angegebenen Informationen nicht für die Stoffe/Zubereitungen/Gemische in einer reineren Form, als Mischung mit anderen Stoffen oder in anderer Verarbeitung. Das Sicherheitsdatenblatt spezifiziert nicht die Qualität der betreffenden Stoffe/Zubereitungen/Gemische.

Die Einhaltung der in diesem Sicherheitsdatenblatt enthaltenen Anleitungen entbindet den Verbraucher nicht von seiner Pflicht, alle Maßnahmen zu treffen, die der gesunde Menschenverstand sowie die Vorschriften und Empfehlungen diesbezüglich nahelegen oder die auf der Grundlage der konkreten Verwendungsbedingungen notwendig und/oder nützlich sind. BIG garantiert weder die Richtigkeit noch die Vollständigkeit der hier enthaltenen Informationen. Die Verwendung dieses Sicherheitsdatenblattes unterliegt den in Ihrer BIG-Lizenzvereinbarung enthaltenen Lizenz- und Haftungsbeschränkungsbestimmungen. Alle mit diesem Sicherheitsdatenblatt verbundenen geistigen Eigentumsrechte sind Eigentum von BIG, die Verteilungs- und Reproduktionsrechte sind eingeschränkt. Einzelheiten entnehmen Sie bitte Ihrer BIG-Lizenzvereinbarung.

(\*) = SELBSTEINSTUFUNG (NFPA)

PBT Stoffe = persistente, bioakkumulierbare und toxische Stoffe

DSD Dangerous Substance Directive - Richtlinie über die Gefährlichen Stoffe  
 DPD Dangerous Preparation Directive - Richtlinie über die Gefährlichen Präparate  
 CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europa)

Vollständiger Wortlaut aller unter Punkt 2 und 3 aufgeführten R-Sätze:

# SILIRUB S

R14	Reagiert heftig mit Wasser
R34	Verursacht Verätzungen
R65	Gesundheitsschädlich: kann beim Verschlucken Lungenschäden verursachen
R66	Wiederholter Kontakt kann zu spröder oder rissiger Haut führen

Vollständiger Wortlaut aller unter Punkt 2 und 3 aufgeführten H-Sätze:

H304	Kann bei Verschlucken und Eindringen in die Atemwege tödlich sein.
H314	Verursacht schwere Verätzungen der Haut und schwere Augenschäden.

Vollständiger Wortlaut aller unter Punkt 2 und 3 aufgeführten Klassen:

Asp.	Aspirationsgefahr
Hautätz.	Ätzwirkung auf die Haut

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

Product name : SILIRUB S  
Registration number REACH : Not applicable (mixture)  
Product type REACH : Mixture

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

Sealant

**1.2.2 Uses advised against**

No uses advised against known

**1.3 Details of the supplier of the safety data sheet:****Supplier of the safety data sheet**

SOUDAL N.V.  
Everdongenlaan 18-20  
B-2300 Turnhout  
Tel: +32 14 42 42 31  
Fax: +32 14 44 39 71  
msds@soudal.com

**Manufacturer of the product**

SOUDAL N.V.  
Everdongenlaan 18-20  
B-2300 Turnhout  
Tel: +32 14 42 42 31  
Fax: +32 14 44 39 71  
msds@soudal.com

**1.4 Emergency telephone number:**

24h/24h: +32 14 58 45 45 (BIG) (Telephone advice: English, French, German, Dutch)

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture:****2.1.1 Classification according to Regulation EC No 1272/2008**

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

**2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC**

Not classified as dangerous according to the criteria of directive(s) 67/548/EEC and/or 1999/45/EC

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

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

**Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)**

Not classified as dangerous in compliance with Directive 67/548/EEC and/or Directive 1999/45/EC

**2.3 Other hazards:****CLP**

No other hazards known

**DSD/DPD**

No other hazards known



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## SECTION 3: Composition/information on ingredients

### 3.1 Substances:

Not applicable

### 3.2 Mixtures:

Name (REACH Registration No)	CAS No EC No	Conc. (C)	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics (01-2119826592-36)		C>10%	Xn; R65	Asp. Tox. 1; H304	(1)(2)(10)	UVCB
hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics (01-2119552497-29)		C>10 %	Xn; R65	Asp. Tox. 1; H304	(1)(10)	UVCB

(1) For R-phrases and H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

## SECTION 4: First aid measures

### 4.1 Description of first aid measures:

#### General:

If you feel unwell, seek medical advice.

#### After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

#### After skin contact:

Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.

#### After eye contact:

Rinse with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

#### After ingestion:

Rinse mouth with water. Consult a doctor/medical service if you feel unwell.

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

#### 4.2.1 Acute symptoms

##### After inhalation:

No effects known.

##### After skin contact:

Not irritating. ON CONTINUOUS EXPOSURE/CONTACT: Dry skin. Cracking of the skin.

##### After eye contact:

Not irritating.

##### After ingestion:

No effects known.

#### 4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media:

#### 5.1.1 Suitable extinguishing media:

Polyvalent foam. Dry chemical powder. Carbon dioxide.

#### 5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

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

Upon combustion: formation of CO, CO<sub>2</sub> and small quantities of hydrogen chloride, sulphur oxides.

### 5.3 Advice for firefighters:

#### 5.3.1 Instructions:

No specific fire-fighting instructions required.

#### 5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

Reason for revision: CLP

Publication date: 2007-01-23

Date of revision: 2012-10-30

Revision number: 0200

Product number: 44799

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## SECTION 6: Accidental release measures

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

No naked flames.

#### 6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing.

Suitable protective clothing

See heading 8.2

### 6.2 Environmental precautions:

Contain leaking substance. Use appropriate containment to avoid environmental contamination.

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

Cover the solid spill with sand/kieselguhr. Scoop solid spill into closing containers. Clean contaminated surfaces with a soap solution. Wash clothing and equipment after handling.

### 6.4 Reference to other sections:

See heading 13.

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 7.1 Precautions for safe handling:

Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed.

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

#### 7.2.1 Safe storage requirements:

Store in a dry area. Store at room temperature. Meet the legal requirements. Max. storage time: 1 year(s).

#### 7.2.2 Keep away from:

Heat sources, oxidizing agents.

#### 7.2.3 Suitable packaging material:

Plastics.

#### 7.2.4 Non suitable packaging material:

No data available

### 7.3 Specific end use(s):

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters:

#### 8.1.1 Occupational exposure

##### a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

##### The Netherlands

Olienevel (minerale olie)	Time-weighted average exposure limit 8 h	5 mg/m <sup>3</sup>	Public occupational exposure limit value
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##### Belgium

Huiles minérales (brouillards)	Short time value	- ppm 10 mg/m <sup>3</sup>	
	Time-weighted average exposure limit 8 h	- ppm 5 mg/m <sup>3</sup>	

##### USA (TLV-ACGIH)

Mineral oil, pure, highly and severely refined	Time-weighted average exposure limit 8 h	5 mg/m <sup>3</sup> (I)	TLV - Adopted Value; (I): Inhalable fraction
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##### Poland

Oleje mineralne - (faza ciekła aerozolu)	Short time value	10 mg/m <sup>3</sup>	
	Time-weighted average exposure limit 8 h	5 mg/m <sup>3</sup>	

##### b) National biological limit values

Reason for revision: CLP

Publication date: 2007-01-23

Date of revision: 2012-10-30

Revision number: 0200

Product number: 44799

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If limit values are applicable and available these will be listed below.

## 8.1.2 Sampling methods

Product name	Test	Number
Oil Mist (Mineral)	OSHA	ID 178SG
Oil Mist (Mineral)	OSHA	ID 128
Oil Mist (Mineral)	NIOSH	5026

## 8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

## 8.1.4 DNEL/PNEC values

### Workers

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Effect level (DNEL/DMEL)	Type	Value	Remark
		No data available	

### General population

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Effect level (DNEL/DMEL)	Type	Value	Remark
		No data available	

### PNEC

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Compartments	Value	Remark
	No data available	

## 8.1.5 Control banding

If applicable and available it will be listed below.

## 8.2 Exposure controls:

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

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

Observe normal hygiene standards. Keep container tightly closed. Do not eat, drink or smoke during work.

#### a) Respiratory protection:

Respiratory protection not required in normal conditions. Wear gas mask with filter type A if conc. in air > exposure limit.

#### b) Hand protection:

Gloves.

#### c) Eye protection:

Safety glasses.

#### d) Skin protection:

Protective clothing.

### 8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

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

Physical form	Paste
Odour	Vinegar odour
Odour threshold	No data available
Colour	Variable in colour, depending on the composition
Particle size	No data available
Explosion limits	No data available
Flammability	Not easily combustible
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Flash point	> 100 °C
Evaporation rate	No data available

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Vapour pressure	No data available
Relative vapour density	Not applicable
Solubility	water ; insoluble ; Literature
Relative density	0.9
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	No data available

## Physical hazards

No physical hazard class

## 9.2 Other information:

Absolute density	970 kg/m <sup>3</sup>
------------------	-----------------------

## SECTION 10: Stability and reactivity

### 10.1 Reactivity:

Temperature above flashpoint: higher fire/explosion hazard. No data available.

### 10.2 Chemical stability:

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions:

No data available.

### 10.4 Conditions to avoid:

Keep away from naked flames/heat.

### 10.5 Incompatible materials:

Oxidizing agents.

### 10.6 Hazardous decomposition products:

Upon combustion: formation of CO, CO<sub>2</sub> and small quantities of hydrogen chloride, sulphur oxides.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects:

#### 11.1.1 Test results

#### Acute toxicity

##### SILIRUB S

No (test)data on the mixture available

hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50	Equivalent to OECD 401	>5000 mg/kg bw		Rat	Male/female	Experimental value
Dermal	LD50	Equivalent to OECD 402	>3160 mg/kg bw	24 h	Rabbit	Male/female	Experimental value
Inhalation (aerosol)	LC50	Equivalent to OECD 403	>5266 mg/m <sup>3</sup> air	4 h	Rat	Male/female	Experimental value

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Route of exposure	Parameter	Method	Value	Exposure time	Species	Gender	Value determination
Oral	LD50	OECD 401	>5000 mg/kg bw		Rat	Male/female	Experimental value
Dermal	LD50	OECD 402	>3160 mg/kg bw	24 h	Rabbit	Male/female	Experimental value
Inhalation (aerosol)	LC50	OECD 403	>5266 mg/m <sup>3</sup> air	4 h	Rat	Male/female	Experimental value

#### Conclusion

Low acute toxicity by the dermal route

Low acute toxicity by the oral route

Low acute toxicity by the inhalation route

#### Corrosion/irritation

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## SILIRUB S

No (test) data on the mixture available

hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Eye	Not irritating	OECD 405	24 h	24; 48; 72 hours	Rabbit	Experimental value
Dermal	Not irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Eye	Not irritating	OECD 405	24 h	24; 48; 72 hours	Rabbit	Experimental value
Skin	Not irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value
Skin	Not irritating	Other	24 h	24; 48; 72 hours	Human	Experimental value

### Conclusion

Not classified as irritating to the skin

Not classified as irritating to the eyes

## Respiratory or skin sensitisation

### SILIRUB S

No (test) data on the mixture available

hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Gender	Value determination
Dermal	Not sensitizing	Equivalent to OECD 406			Guinea pig		Experimental value
Dermal	Not sensitizing				Human	Male/female	Experimental value
Inhalation (vapours)	Not sensitizing						Literature

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Gender	Value determination
Skin	Not sensitizing	OECD 406	24 h	24; 48 hours	Guinea pig	Female	Read-across
Skin	Not sensitizing	Other	216 h	24; 48 hours	Human	Male/female	Experimental value

### Conclusion

Not classified as sensitizing for skin

Not classified as sensitizing for inhalation

## Specific target organ toxicity

### SILIRUB S

No (test) data on the mixture available

hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Gender	Value determination
Oral	NOAEL	Equivalent to OECD 408	>5000 mg/kg bw/day		No effect	13 weeks (daily)	Rat	Male/female	Read-across
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	10400 mg/m <sup>3</sup> air		No effect	13 weeks (6h/day, 5 days/week)	Rat	Male/female	Read-across

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Gender	Value determination
Oral	NOAEL	Equivalent to OECD 408	≥5000 mg/kg bw/day		No effect	13 weeks (daily)	Rat	Male/female	Read-across
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	>10400 mg/m <sup>3</sup> air		No effect	13 weeks (6h/day, 5 days/week)	Rat	Male/female	Read-across

### Conclusion

Low sub-chronic toxicity by the oral route

Low sub-chronic toxicity by inhalation route

## Mutagenicity (in vitro)

### SILIRUB S

No (test) data on the mixture available

hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Result	Method	Test substrate	Effect	Value determination
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value

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hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Result	Method	Test substrate	Effect	Value determination
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value

## Mutagenicity (in vivo)

### SILIRUB S

No (test)data on the mixture available

hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Result	Method	Exposure time	Test substrate	Gender	Organ	Value determination
Negative	Equivalent to OECD 483	8 weeks (5 days/week)	Mouse	Male		Read-across

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Result	Method	Exposure time	Test substrate	Gender	Organ	Value determination
Negative	Equivalent to OECD 483	8 weeks (6h/day, 5 days/week)	Mouse	Male		Read-across
Negative	Equivalent to OECD 475		Rat	Male/female		Read-across
Negative	Equivalent to OECD 474		Mouse	Male/female		Read-across

## Carcinogenicity

### SILIRUB S

No (test)data on the mixture available

## Reproductive toxicity

### SILIRUB S

No (test)data on the mixture available

hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

	Parameter	Method	Value	Exposure time	Species	Gender	Effect	Organ	Value determination
Developmental toxicity	NOAEC (P)	Equivalent to OECD 416	>7500 mg/m <sup>3</sup>		Mouse	Male/female	No effect		Experimental value

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

	Parameter	Method	Value	Exposure time	Species	Gender	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	>1000 mg/kg bw/day	10 day(s)	Rat		No effect		Experimental value
Effects on fertility	NOAEC	Equivalent to OECD 416	≥1500 ppm	13 weeks (6h/day, 5 days/week)	Rat	Male/female	No effect		Read-across
	NOAEC	Equivalent to OECD 421	≥300 ppm	8 weeks (6h/day, 5 days/week)	Rat	Male/female	No effect		Read-across
	NOAEL	Equivalent to OECD 422	>1000 mg/kg bw/day	6 weeks (daily)	Rat	Male/female	No effect		Read-across

## Conclusion CMR

Not classified for reprotoxic or developmental toxicity

Not classified for mutagenic or genotoxic toxicity

Not classified for carcinogenicity

## Toxicity other effects

### SILIRUB S

No (test)data on the mixture available

## Chronic effects from short and long-term exposure

### SILIRUB S

No effects known.

## 11.1.2 Other information

### SILIRUB S

No (test)data on the mixture available

hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

TLV - Carcinogen	A4
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hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

TLV - Carcinogen

A4

## SECTION 12: Ecological information

### 12.1 Toxicity:

SILIRUB S

No (test) data on the mixture available

hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Equivalent to OECD 203	>1028 mg/l	96 h	Scophthalmus maximus	Semi-static	Salt water	Experimental value
Acute toxicity invertebrates	LC50	Other	>3193 mg/l	48 h	Acartia tonsa	Static system	Salt water	Experimental value
Toxicity algae and other aquatic plants	EC50	ISO 10253	>10000 mg/l	72 h	Skeletonema costatum	Static system	Salt water	Experimental value
Long-term toxicity fish	NOEL		>1000 mg/l	28 day(s)	Oncorhynchus mykiss		Fresh water	QSAR
Long-term toxicity aquatic invertebrates	NOEL	US EPA	>100 mg/l	8 day(s)	Ceriodaphnia dubia	Semi-static	Fresh water	QSAR
Toxicity aquatic micro-organisms	EC50	OECD 209	>100 mg/l	3 h	Activated sludge	Static system	Fresh water	Experimental value

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	>1028 mg/l	96 h	Scophthalmus maximus			Experimental value
Acute toxicity invertebrates	LC50		>3193 mg/l	48 h	Acartia tonsa			Experimental value
Toxicity algae and other aquatic plants	ErC50	ISO 10253	>10000 mg/l	72 h	Skeletonema costatum			Experimental value
Long-term toxicity fish	NOEL		>1000 mg/l	28 day(s)	Oncorhynchus mykiss			QSAR
Long-term toxicity aquatic invertebrates	NOEL		>1000 mg/l	21 day(s)	Daphnia magna			QSAR
Toxicity aquatic micro-organisms	EC50	OECD 209	>100 mg/l	3 h	Activated sludge	Static system	Fresh water	Experimental value

Classification of the mixture is based on the relevant ingredients of the mixture

### Conclusion

Not classified as dangerous for the environment according to the criteria of Directive 1999/45/EC

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

### 12.2 Persistence and degradability:

hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Biodegradation water

Method	Value	Duration	Value determination
OECD 306: Biodegradability in Seawater	74 %	28 day(s)	Experimental value

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Biodegradation water

Method	Value	Duration	Value determination
OECD 306: Biodegradability in Seawater	74 %	28 day(s)	Experimental value

Phototransformation water (DT50 water)

Method	Value	Conc. OH-radicals	Value determination

Phototransformation soil (DT50 soil)

Method	Value	Conc. OH-radicals	Value determination

### Conclusion

Contains readily biodegradable component(s)

### 12.3 Bioaccumulative potential:

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

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hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable			Literature

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

## Conclusion

No test data of component(s) available

## 12.4 Mobility in soil:

No (test)data on mobility of the components of the mixture available

## 12.5 Results of PBT and vPvB assessment:

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

## 12.6 Other adverse effects:

### SILIRUB S

#### Global warming potential (GWP)

None of the known components is included in the list of substances which may contribute to the greenhouse effect (Regulation (EC) No 842/2006)

#### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)

hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

#### Global warming potential (GWP)

Not included in the list of substances which may contribute to the greenhouse effect (Regulation (EC) No 842/2006)

#### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 13.1 Waste treatment methods:

#### 13.1.1 Provisions relating to waste

Waste material code (Directive 2008/98/EC, decision 2000/0532/EC).

08 04 10 (waste adhesives and sealants other than those mentioned in 08 04 09). Depending on branch of industry and production process, also other EURAL codes may be applicable. Can be considered as non hazardous waste according to Directive 2008/98/EC.

#### 13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Specific treatment. Do not discharge into drains or the environment.

#### 13.1.3 Packaging/Container

Waste material code packaging (Directive 2008/98/EC).

15 01 02 (plastic packaging).

## SECTION 14: Transport information

### Road (ADR)

#### 14.1 UN number:

Transport	Not subject
-----------	-------------

#### 14.2 UN proper shipping name:

#### 14.3 Transport hazard class(es):

Hazard identification number	
Class	
Classification code	

#### 14.4 Packing group:

Packing group	
Labels	

#### 14.5 Environmental hazards:

Environmentally hazardous substance mark	no
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#### 14.6 Special precautions for user:

Special provisions	
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Limited quantities	
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## Rail (RID)

14.1 UN number:

Transport	Not subject
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14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Hazard identification number	
------------------------------	--

Class	
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Classification code	
---------------------	--

14.4 Packing group:

Packing group	
---------------	--

Labels	
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14.5 Environmental hazards:

Environmentally hazardous substance mark	no
--	----

14.6 Special precautions for user:

Special provisions	
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Limited quantities	
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## Inland waterways (ADN)

14.1 UN number:

Transport	Not subject
-----------	-------------

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Class	
-------	--

Classification code	
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14.4 Packing group:

Packing group	
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Labels	
--------	--

14.5 Environmental hazards:

Environmentally hazardous substance mark	no
--	----

14.6 Special precautions for user:

Special provisions	
--------------------	--

Limited quantities	
--------------------	--

## Sea (IMDG)

14.1 UN number:

Transport	Not subject
-----------	-------------

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Class	
-------	--

14.4 Packing group:

Packing group	
---------------	--

Labels	
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14.5 Environmental hazards:

Marine pollutant	-
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Environmentally hazardous substance mark	no
--	----

14.6 Special precautions for user:

Special provisions	
--------------------	--

Limited quantities	
--------------------	--

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Annex II of MARPOL 73/78	
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## Air (ICAO-TI/IATA-DGR)

14.1 UN number:

Transport	Not subject
-----------	-------------

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Class	
-------	--

14.4 Packing group:

Packing group	
---------------	--

Labels	
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14.5 Environmental hazards:

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Environmentally hazardous substance mark	no
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## 14.6 Special precautions for user:

Special provisions	
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	

## SECTION 15: Regulatory information

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

#### European legislation:

Volatile organic compounds (VOC)

< 2 %

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	Liquid substances or mixtures, which are regarded as dangerous according to the definitions in Council Directive 67/548/EEC and Directive 1999/54/EC.	1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market. 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with R65 or H304. 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN). 5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage"; b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010. 6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public. 7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.
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#### National legislation

- The Netherlands

Waterbezwaarlijkheid (the Netherlands)	6
Waste identification other lists of waste materials	LWCA (the Netherlands): KGA category 05

- Germany

WGK	1	Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)
TA-Luft	hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	TA-Luft Klasse 5.2.5

### 15.2 Chemical safety assessment:

No chemical safety assessment has been conducted.

## SECTION 16: Other information

Information based on classification according to CLP

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

R65 Harmful: may cause lung damage if swallowed

#### Full text of any H-statements referred to under headings 2 and 3:

H304 May be fatal if swallowed and enters airways.

(\*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive

DPD Dangerous Preparation Directive

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

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The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult your BIG licence agreement for details.

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