



# MATERIAL SAFETY DATA SHEET

2<sup>nd</sup> March 2015

## CLEAR LAMP OIL

### SECTION 1: IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY

#### 1.1 Product Identifier

Trade Name	Clear Lamp Oil (Indoor)
REACH No.	01-2119475608-26-0000
Substance name (REACH/CLP)	Hydrocarbons, C10-C13, n-alkanes, <2% aromatics

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

Use	Solvent
Uses advised against	Raw material for synthesis processes in the chemical industry

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

Supplier:	R.K. & J. Jones Limited
Address:	Southery Road, Feltwell Thetford, Norfolk, IP26 4EH, UK.
Telephone:	01842 828101
Emergency telephone number:	01223 968282

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**  
Aspiration hazard Category 1 (Oral) May be fatal if swallowed and enters airways

#### Classification (67/548/EEC, 1999/45/EC)

Harmful Harmful: may cause lung damage if swallowed. Repeated Exposure may cause skin dryness or cracking

#### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

**Hazard pictograms**



**Signal word**

Danger

**Hazard statements**

H304

May be fatal if swallowed and enters airways

**Precautionary statements**

P301+P310

IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician

P331

Do NOT induce vomiting

P405

Store locked up

P501

Dispose of contents/container to an approved incineration plant.

**Supplemental Hazard Statements**

EUH066

Repeated exposure may cause skin dryness or cracking.

**2.3 Other hazards**

The information required is contained in this Material Safety Data Sheet.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

This product is a substance in the meaning of regulation (EC) 1907/2006.

**COMPONENTS TO BE NAMED IN ACCORDANCE WITH REGULATION (EC) 1907/2006 AS WELL AS OTHER HAZARDOUS INGREDIENTS AND CONTAINED SUBSTANCES WITH WORK PLACE LIMIT VALUES****Hydrocarbons, C10-C13, n-alkanes, <2% aromatics****Component type:** Active ingredient**EC-No:** 929-018-5**Index-No:****CAS-No:****REACH No.** 01-2119475608-26-0000**Substance name (REACH/CLP):** Hydrocarbons, C10-C13, n-alkanes, <2% aromatics**Classification (Directive 67/548/EEC):**

Xn

R65

R66

**Classification (Regulation (EC) No 1272/2008):**

Asp.Tox. 1 (Oral)

H304

For the full text of the R-Phrases mentioned in this section, see Section 16.

For the full text of the H-Statements mentioned in this section, see Section 16

**Other data**

Synonyms: Paraffins (petroleum) normal C5-20, CAS Nr. 64771-72-8

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures****General advice**

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

**If inhaled:**

In the case of inhalation of aerosol/mist consult a physician if necessary. Consult a physician after significant exposure.

**In case of skin contact:**

Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

**In case of eye contact:**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If eye irritation persists, consult a specialist.

**If swallowed:**

Do NOT induce vomiting. Keep respiratory tract clear. Call a physician immediately.

**4.2 Most important symptoms and effects, both acute and delayed****Most important symptoms and effects Both acute and delayed:**

Symptoms: No information available.

Risks: Risk of product entering the lungs on vomiting after ingestion.

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

Indication of any immediate medical Attention and special treatment needed: Treatment: No information available.

### SECTION 5 : FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media Water mist, carbon dioxide (CO<sub>2</sub>) foam, dry chemical, keep containers and surroundings cool with water spray.

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

Special hazards during firefighting In case of fire hazardous decomposition products may be produced such as:  
Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide

#### 5.3 Advice for firefighters

Special protective equipment For firefighters: Wear self-contained breathing apparatus and protective suit.

Further information: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Personal Precautions: Use personal protective equipment

#### 6.2 Environmental precautions

Environmental precautions: If the product contaminates rivers and lakes or drains, inform respective authorities. Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.

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

Methods for cleaning up: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13) After cleaning, flush away traces with water.

#### 6.4 References to other sections

For personal protection see section 8

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Advice on safe handling: Avoid inhalation, ingestion and contact with skin and eyes. Do not breathe vapours or spray mist. Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion.

Normal measures for preventative fire protection. Keep away

from combustible material. Take precautionary measures against static discharges. No smoking.

## 7.2 Conditions for safe storage, including any incompatibilities

### Requirements for storage areas and containers:

No special storage conditions required. Keep in a well ventilated place.

### Storage class (TRGS 510) Container material

10: Combustible liquids not in storage class 3  
Suitable materials: Stainless steel: 1.4541, 1.4571 (DIN); X6CrNiTi18-10, X6CrNiMoTi17-12-2 (EN); 321,316 Ti (AISI)

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

This information is not available

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### COMPONENTS WITH WORKPLACE CONTROL PARAMETERS NATIONAL OCCUPATIONAL EXPOSURE LIMITS

No data available

#### EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

#### DERIVED NO EFFECT LEVEL (DNEL)

##### Substance name: Hydrocarbons, C10-C13,n-alkanes,<2% aromatics

End Use	Exposure routes	Values	Note
Workers	Dermal, Acute/short term exposure-systemic effects.		Not relevant/not applicable
	Inhalation, Acute/short term exposure-systemic effects.		Not relevant/not applicable
	Dermal, Acute/short term exposure-local effects.		Not relevant/not applicable
	Inhalation, Acute/short term exposure-local effects.		Not relevant/not applicable
	Dermal, long-term exposure-systemic effects		Not relevant/not applicable
	Inhalation, long-term exposure-systemic effects		Not relevant/not applicable
	Dermal, long-term exposure-local effects		Not relevant/not applicable
	Inhalation, long-term exposure-local effects		Not relevant/not applicable
Consumers	Dermal, Acute/short term exposure-systemic effects		Not relevant/not applicable
	Inhalation, Acute/short term exposure-systemic effects		Not relevant/not applicable
	Oral, Acute/short term exposure-systemic effects		Not relevant/not applicable
	Dermal, Acute/short term exposure-local effects		Not relevant/not applicable
	Inhalation, Acute/short term exposure-local effects		Not relevant/not applicable
	Dermal, long-term exposure-systemic effects		Not relevant/not applicable
	Inhalation, long-term exposure-systemic effects		Not relevant/not applicable
	Oral, long-term exposure-systemic effects		Not relevant/not applicable

	Dermal, long-term exposure-local effects		Not relevant/not applicable
	Inhalation, long-term exposure-local effects		Not relevant/not applicable

**PREDICTED NO EFFECT CONCENTRATION (PNEC)****Substance name: Hydrocarbons,C10-C13,n-alkanes,<2% aromatics**

Environmental Compartment	Value	Note
Fresh water		Not relevant/not applicable
Marine water		Not relevant/not applicable
Intermittent release		Not relevant/not applicable
Treatment plant		Not relevant/not applicable
Fresh water sediment		Not relevant/not applicable
Marine sediment		Not relevant/not applicable
Soil		Not relevant/not applicable
Food		Not relevant/not applicable

**8.2 Exposure controls****PERSONAL PROTECTIVE EQUIPMENT****Respiratory protection:**

No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self – contained breathing apparatus or breathing apparatus with a type A filter or appropriate combined filter (e.g. where aerosols are in use, or smoke and mist occur, A-P2 or ABEK-P2) In compliance with EN 141.

**Hand protection**

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN374, due to the numerous outside influences (e.g. temperature)

**Gloves suitable for permanent contact:**

Material: Fluorinated rubber  
Break through time: >=480min  
Material thickness: 0.4mm

**Gloves suitable for splash protection:**

Material: Nitrile rubber/nitrile latex  
Break through time: >=240 min  
Material thickness: 0.35mm

**Unsuitable gloves:**

Material: Natural rubber/natural latex, Polychloroprene, butyl-rubber, Polyvinylchloride.

**Eye Protection**

Safety glasses

**Skin and Body protection**

Protective suit

**Hygiene measures**

General industrial hygiene practice.

**ENVIRONMENTAL EXPOSURE CONTROLS**

<b>General advice</b>	If the product contaminates rivers and lakes or drains inform respective authorities.
<b>Soil</b>	Avoid subsoil penetration
<b>Water</b>	Do not flush into surface water or sanitary sewer system.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.****9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	liquid; 20°C; 1,013 hPa
<b>Form</b>	viscous
<b>Colour</b>	colourless, clear
<b>Odour</b>	faint
<b>Odour threshold</b>	no data available
<b>pH</b>	not applicable, justification: insoluble
<b>pour point</b>	max.-10°C; 1,013 hPA
<b>boiling point/boiling range</b>	155-244°C; 1,013 hPA
<b>flash point</b>	>61°C; 1,013 hPA
<b>evaporation rate</b>	not determined
<b>flammability (solid,gas)</b>	not applicable (liquid)
<b>lower explosion limit</b>	0.6 % (V)
<b>Upper explosion limit</b>	7% (V)
<b>Vapour pressure</b>	max.1.1 hPa; 25°C
<b>Relative vapour density</b>	not determined
<b>Density</b>	0.73-0.80g/cm <sup>3</sup> ; 15°C
<b>Relative density</b>	No data available
<b>Bulk density</b>	No data available
<b>Solubility in other solvents</b>	Medium: Hexane; soluble
<b>Water solubility</b>	20°C; 1,013hPa; insoluble
<b>Partition coefficient: n- Octanol/water</b>	not applicable Justification: surface-active substance
<b>Ignition temperature</b>	not determined
<b>Auto-ignition temperature</b>	>200°C
<b>Viscosity, kinematic</b>	1.5-2.0 mm <sup>2</sup> /s; 20°C
<b>Explosive properties</b>	Not explosive
<b>Oxidising properties</b>	Not applicable
<b>Surface tension</b>	Not determined

**9.2 Other data** None known

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

**Note** No decomposition if stored and applied as directed

**10.2 Chemical stability**

**Note** Stable under normal conditions

**10.3 Possibility of hazardous reactions**

**Hazardous reactions** None known

**10.4 Conditions to avoid**

**Conditions to avoid** Heat, flames and sparks

**10.5 Incompatible materials to avoid**

**Materials to avoid** Strong oxidising agents;

**10.6 Hazardous decomposition products**

**Hazardous decomposition products** No decomposition if stored normally

**Thermal decomposition** No decomposition if used as directed.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute toxicity****Acute oral toxicity**

Hydrocarbons, C10-C13,n-alkanes,<2%aromatics:  
LD50 Oral rat:>2,000 mg/kg;OECD Test Guideline 401  
Category approach (literature value) Based on available  
Data, the classification criteria are not met.

**Acute inhalation toxicity**

Hydrocarbons, C10-C13,n-alkanes,<2%aromatics:  
LC50 rat:>5mg/l; 8h; OECD Test Guideline 403  
Test atmosphere: vapour (literature value)  
Based on available data, the classification criteria are not met.

**Acute dermal toxicity**

Hydrocarbons, C10-C13, n-alkanes,<2% aromatics:  
LD50 Dermal rabbit: >2,000 mg/kg;  
Category approach (literature value)  
Based on available data, the classification criteria are not met.

**Skin corrosion/irritation****Skin irritation**

Hydrocarbons, C10-C13,n-alkanes,<2% aromatics:  
Rabbit: not irritating; OECD Test Guideline 404  
(literature value)  
Category approach. Based on available data, the classification  
criteria are not met.

**Serious eye damage/eye irritation****Eye irritation**

Hydrocarbons,C10-C13,n-alkanes,<2% aromatics:  
Rabbit: not irritating; OECD Test Guideline 405  
(literature value)  
Category approach. Based on available data, the classification  
criteria are not met.

**Respiratory or skin sensitisation****Sensitisation**

Hydrocarbons, C10-C13,n-alkanes,<2% aromatics:  
Maximisation Test (GPMT) guinea pig:not sensitising  
Category approach (literature value)  
Based on available data, the classification criteria are not met.

**Germ cell mutagenicity****Genotoxicity in vitro**

Hydrocarbons, C10-C13, n-alkanes,<2% aromatics:  
In vitro tests did not show mutagenic effects.

**Genotoxicity in vivo**

Hydrocarbons, C10-C13, n-alkanes,<2% aromatics:  
In vivo tests did not show mutagenic effects  
Category approach.

**Remarks**

Hydrocarbons, C10-C13,n-alkanes,<2% aromatics:  
Based on available data, the classification criteria are not met.

**Carcinogenicity****Carcinogenicity**

Hydrocarbons, C10-C13,n-alkanes,<2% aromatics:  
Rat; Inhalation; Subchronic toxicity; 5 days/week; OECD Test  
Guideline 453. Animal testing did not show any carcinogenic  
effects. (literature value)  
Category approach.

**Remarks**

Hydrocarbons, C10-C13,n-alkanes,<2% aromatics:  
Based on available data, the classification criteria are not met.

**Reproductive toxicity****Reproductive toxicity:**

Hydrocarbons, C10-C13,n-alkanes,<2% aromatics:

	<p>Rat; Oral  NOAEL ((parents)): 1,000 mg/kg  NOAEL (F1):1,000 mg/kg; OECD Test Guideline 422  Fertility and developmental toxicity tests did not reveal any effect on reproduction.  Category approach  Test substance: decane</p> <p>Hydrocarbons, C10-C13,n-alkanes,&lt;2% aromatics:  Two generation reproductive toxicity; OECD Test Guideline 416  Testing proposal</p>
<b>Remarks Reproductive Toxicity</b>	Hydrocarbons, C10-C13,n-alkanes,<2% aromatics: Based on available data, the classification criteria are not met.
<b>Teratogenicity</b>	Hydrocarbons, C10-C13,n-alkanes,<2% aromatics: rat; inhalation NOAEL: 5.22 mg/l NOAEL (dam): 5.22 mg/l; OECD Test Guideline 414 (literature value) Fertility and developmental toxicity tests did not reveal any effect on reproduction. Category approach
<b>Remarks-Teratogenicity</b>	Hydrocarbons, C10-C13,n-alkanes,<2% aromatics: Based on available data, the classification criteria are not met.
<b>STOT – single exposure Remarks</b>	Hydrocarbons, C10-C13,n-alkanes,<2% aromatics: The substance or mixture is not classified as specific target organ toxicant, single exposure.
<b>STOT – repeated exposure Remarks</b>	Hydrocarbons, C10-C13,n-alkanes,<2% aromatics: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
<b>Repeated dose toxicity</b>	Hydrocarbons, C10-C13,n-alkanes,<2% aromatics: Rat: Oral; Subchronic toxicity NOAEL:> 5,000 mg/kg; OECD Test Guideline 408 (literature value) Category approach
	Hydrocarbons, C10-C13,n-alkanes,<2% aromatics: Rat; Inhalation; Subchronic toxicity; NOAEC: 10.4 mg/l Test atmosphere: vapour; OECD Test Guideline 413 (literature value) Category approach
<b>Aspiration hazard</b>	
<b>Aspiration toxicity</b>	Hydrocarbons, C10-C13,n-alkanes,<2% aromatics: May be fatal if swallowed and enters airways
<b>Human experience</b>	Hydrocarbons, C10-C13,n-alkanes,<2% aromatics: Repeated exposure may cause skin dryness or cracking. No Skin irritation Until now, sensitisation has not occurred during handling.
<b>Toxicological Information</b>	Hydrocarbons, C10-C13,n-alkanes,<2% aromatics: Toxicokinetics, metabolism and distribution. The substance is poorly absorbed via skin. The substance is metabolised and excreted. The substance is readily absorbed by ingestion and inhalation. Category approach (literature value)

Hydrocarbons, C10-C13,n-alkanes,<2% aromatics:  
 Neurotoxicity  
 (literature value)  
 The substance is not likely to cause neurotoxicity.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Toxicity to fish

Hydrocarbons, C10-C13,n-alkanes,<2% aromatics:  
 LL50 (96hr) Oncorhynchus mykiss (rainbow trout) :> 10-  
 100mg/l; semi-static test; OECD Test Guideline 203  
 (literature value)

#### Toxicity to daphnia and other Aquatic invertebrates

Hydrocarbons, C10-C13,n-alkanes,<2% aromatics:  
 EL50 (48h) Daphnia magna (water flea) :>100mg/l;  
 Immobilisation (literature value)

#### Toxicity to aquatic plants

Hydrocarbons, C10-C13,n-alkanes,<2% aromatics:  
 ErL50 (72h) Skeletonema costatum:> 100mg/l;  
 Growth inhibition; (literature value)

#### Toxicity to bacteria

Hydrocarbons, C10-C13,n-alkanes,<2% aromatics:  
 The study is not necessary.  
 Substance is a UVCB. Standard tests for this endpoint are  
 Intended for single substances and are not appropriate for this  
 complex substance. Readily biodegradable.

#### Toxicity to soil dwelling organisms

Hydrocarbons, C10-C13,n-alkanes,<2% aromatics:  
 The study is not necessary.  
 Substance is a UVCB. Standard tests for this endpoint are  
 Intended for single substances and are not appropriate for this  
 complex substance.

#### Toxicity to terrestrial flora

Hydrocarbons, C10-C13,n-alkanes,<2% aromatics:  
 The study is not necessary.  
 Substance is a UVCB. Standard tests for this endpoint are  
 Intended for single substances and are not appropriate for this  
 complex substance.

#### Toxicity for other terrestrial Non-mammalian fauna

Hydrocarbons, C10-C13,n-alkanes,<2% aromatics:  
 The study is not necessary.  
 Studies on birds do not need to be conducted due to large  
 Mammalian dataset.

### 12.2 Persistence and degradability

#### Biodegradability

Hydrocarbons, C10-C13,n-alkanes,<2% aromatics:  
 Rapidly biodegradable;> 60%; 28d; aerobic  
 (literature value)

#### 12.3 Bioaccumulative potential

#### Bioaccumulation

Hydrocarbons, C10-C13,n-alkanes,<2% aromatics:  
 Substance is a UVCB. Standard tests for this endpoint are  
 intended for single substances and are not appropriate for this  
 complex substance. Substance is readily biodegradable and  
 has a low aquatic toxicity. Bioaccumulation is unlikely.  
 Category approach

#### 12.4 Mobility in soil

#### Mobility

Hydrocarbons, C10-C13,n-alkanes,<2% aromatics:  
 Substance is a UVCB. Standard tests for this endpoint are  
 intended for single substances and are not appropriate for this  
 complex substance.

### 12.5 Results of PBT and vPvB assessment

#### Results of PBT assessment

Hydrocarbons, C10-C13,n-alkanes,<2% aromatics:  
 Based on available data, the classification criteria are not met.

#### 12.6 Other adverse effects

**General advice**

Hydrocarbons, C10-C13,n-alkanes,<2% aromatics:  
None known.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

**Product** Can be incinerated, when in compliance with local regulations.

**SECTION 14 : TRANSPORT INFORMATION****14.1 UN number**

<b>ADR</b>	Not dangerous goods
<b>RID</b>	Not dangerous goods
<b>ADN</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>ICAO/IATA</b>	Not dangerous goods

**14.2 Proper shipping name**

<b>ADR</b>	Not dangerous goods
<b>RID</b>	Not dangerous goods
<b>ADN</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>ICAO/IATA</b>	Not dangerous goods

**14.3 Transport hazard class**

<b>ADR</b>	Not dangerous goods
<b>RID</b>	Not dangerous goods
<b>ADN</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>ICAO/IATA</b>	Not dangerous goods

**14.4 Packing Group**

<b>ADR</b>	Not dangerous goods
<b>RID</b>	Not dangerous goods
<b>ADN</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>ICAO/IATA</b>	Not dangerous goods

**14.5 Environmental hazards**

<b>ADR</b>	Environmentally hazardous	no
<b>RID</b>	Environmentally hazardous	no
<b>ADN</b>	Environmentally hazardous	no
<b>IMDG</b>	Marine pollutant	no
<b>ICAO/IATA</b>	Environmentally hazardous	no

**14.6 Special precautions for user****14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code**

Ship type	3
Pollution category	Y
Remarks	MARPOL NAME: N-Alkanes (C10+)

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.**

**Occupational restrictions** Employment restrictions for children and young workers in accordance with Directive 94/33/EC and the respective national provisions are to be observed.

**NATIONAL/OTHER REGULATIONS**

**Directive 96/82/EC on the control of major accident hazards involving dangerous substances.** list entry in the directive: Directive 96/82/EC does not apply.

**NOTIFICATION STATUS**

Us.Toxic Substances Control Act	TSCA	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA) Domestic Substances List (DSL)	DSL	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	y (positive listing)
New Zealand. Inventory of Chemicals (NZIoC) as Published by ERMA New Zealand	NZIOC	y (positive listing)
Japan. Kashin-Hou Law List	ENCS (JP)	n (negative listing)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	n (negative listing)
Philippines. The Toxic Substances and Hazardous And Nucleur waste Control Act	PICCS (PH)	y (positive listing)
China. Inventory of Existing Chemical Substances	INV (CN)	y (positive listing)
Switzerland. Consolidated Inventory	CH INV	n (negative listing)

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

**15.2 Chemical Safety Assessment****Hydrocarbons, C10-C13,n-alkanes,<2% aromatics**

A chemical safety assessment has been carried out for this substance.

**SECTION 16 : OTHER HEALTH AND SAFETY INFORMATION****Text of R-phrases mentioned in Section 3**

R65	Harmful: may cause lung damage if swallowed
R66	Repeated exposure may cause skin dryness or cracking.

**Full text of H-Statements referred to under sections 2 and 3**

H304	May be fatal if swallowed and enters airways
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**Safety datasheet sections which have been updated:**

- 4. First aid measures
  - 8. Exposure controls/personal protection
  - 11.Toxicological information
  - 12.Ecological information
  - 14.Transport information
- Annex

**Further information:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and

may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety data sheet only contains information relating to safety and does not replace any product information or product specification.

**Key or legend to abbreviations and acronyms used in the safety data sheet.**

ADN	Accord europeen relatif au transport international des marchandises dangereuses Par voie de navigation interieure.
ADR	Accord europeen relative au transport international des marchandises dangereuses Par Route
AICS	Australian Inventory of Chemical substances
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials (US)
BCF	Bioconcentration factor
CLP	Regulation on classification, labelling and packaging of substances and mixtures
DIN	Deutsches Institut fur Normung
DNEL	Derived No Effect Level
DSL	Domestic Substances List
EC..	Effect concentration...%
ENCS	Existing Notified Chemical Substances (Japan)
EWC	European Waste Catalogue
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organisation
IMDG	International Maritime Dangerous goods
IMO	International Maritime Organisation
ISHL	Industrial Safety and Health Law (Japan)
ISO	International Organisation for Standardisation
IUAPC	International Union of Pure and Applied Chemistry
KECI	Korea Existing Chemicals Inventory
LC...	Lethal Concentration....%
LD....	Lethal Dose...%
MARPOL	International Convention for the Prevention of Pollution from Ships
NDSL	Non-Domestic Substances List
NOAEL	No Observable adverse effect level
NOEL/NOEC	No Observed-effect level/concentration
NZIoC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, bioaccumulative, toxic
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNEC	Predicted No-effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Reglement concernant le transport international ferroviaire de marchandises Dangereuses
TG	Test Guideline
TRGS	Technische Regeln fur Gefahrstoffe
TSCA	Toxic substances control act
vPvB	Very persistent, very bioaccumulative
WGK	Wassergefahrdungsklasse

Rev 1