

Page 1/8

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 21.12.2018

Version number 1

Revision: 21.12.2018

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

· 1.1 Product identifier

· Product name: Isododecane

- · Part number: DRE-C14408000
- · CAS Number: 31807-55-3
- · EC number:

250-816-8

### $\cdot$ 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.

- · Application of the substance / the mixture Reference material for laboratory use only
- $\cdot$  1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier: LGC Limited **Oueens Road Teddington** Middlesex TW11 0LY UNITED KINGDOM

Tel:+44 (0) 20 8943 7000 Fax :+44 (0) 20 8943 2767 eMail: gb@lgcstandards.com Web : www.lgcstandards.com

• Further information obtainable from: Product safety department eMail : sds-request@lgcgroup.com · 1.4 Emergency telephone number: +44 (0) 20 8943 7000 (Monday - Friday : 8am - 5pm)

### **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



Flam. Liq. 3 H226 Flammable liquid and vapour.

GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

- The substance is classified and labelled according to the CLP regulation. · Hazard pictograms



(Contd. on page 2)



Page 2/8

### Safety data sheet according to 1907/2006/EC, Article 31

Printing date 21.12.2018

Version number 1

Revision: 21.12.2018

#### Product name: Isododecane

(Contd. from page 1) · Signal word Danger · Hazard statements H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. · Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves/protective clothing/eye protection/face protection. *P301+P310* IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · 2.3 Other hazards · Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

### **SECTION 3: Composition/information on ingredients**

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description
- 31807-55-3 Isodecane
- · Identification number(s) None
- · EC number: 250-816-8
- · RTECS: -

· Additional information: For the wording of the listed hazard phrases refer to section 16.

### **SECTION 4: First aid measures**

- $\cdot$  4.1 Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing:
- Rinse mouth. Do not induce vomiting.
- Seek immediate medical advice.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- $\cdot$  4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

(Contd. on page 3)



Page 3/8

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 21.12.2018

Version number 1

Revision: 21.12.2018

#### Product name: Isododecane

(Contd. from page 2)

#### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet

 $\cdot$  5.2 Special hazards arising from the substance or mixture

- Formation of toxic gases is possible during heating or in case of fire.
- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

### **SECTION 6:** Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

6.4 Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

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

• 7.1 Precautions for safe handling Ensure good ventilation/extraction at the workplace. Store in cool, dry place in tightly closed receptacles. Prevent formation of aerosols.
• Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect from heat.

Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location. Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA. Keep container in a well-ventilated place. Keep away from sources of ignition and heat.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions:
- Keep container tightly sealed.

(Contd. on page 4)

GB



Page 4/8

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 21.12.2018

Version number 1

Revision: 21.12.2018

(Contd. from page 3)

#### Product name: Isododecane

Protect from heat and direct sunlight.

• 7.3 Specific end use(s) No further relevant information available.

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

• Additional information about design of technical facilities: No further data; see item 7.

- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: Lists used were valid at the time of SDS preparation.
- · 8.2 Exposure controls
- · Personal protective equipment:
- *General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.*

Wash hands before breaks and at the end of work.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

- · Material of gloves Nitrile rubber, NBR
- · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

(Contd. on page 5)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 21.12.2018

Version number 1

Revision: 21.12.2018

Page 5/8

Product name: Isododecane

(Contd. from page 4)

SECTION 9: Physical and chemical properties		
9.1 Information on basic physical and c	hemical properties	
General Information		
Appearance:		
Form:	Liquid	
Colour:	Colourless	
Odour:	Mild	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/freezing point:	-81 °C	
Initial boiling point and boiling range	: са. 180 °С	
Flash point:	43 °C	
Flammability (solid, gas):	Not determined.	
Ignition temperature:	430 °C	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Not determined.	
Explosive properties:	Product is not explosive. However, formation of explosive air vapour mixtures is possible.	
Explosion limits:		
Lower:	0.5 Vol % (40 g/m <sup>3</sup> )	
Upper:	$3.8 \text{ Vol }\% (270 \text{ g/m}^3)$	
Vapour pressure at 50 °C:	30 hPa	
Density at 20 °C:	0.75 g/cm <sup>3</sup>	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
9.2 Other information	No further relevant information available.	

# SECTION 10: Stability and reactivity

· 10.1 Reactivity Stable under normal conditions.

• 10.2 Chemical stability Stable under normal conditions.

GB



Page 6/8

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 21.12.2018

Version number 1

Revision: 21.12.2018

(Contd. from page 5)

#### Product name: Isododecane

- Thermal decomposition / conditions to be avoided:
- Formation of toxic gases is possible during heating or in case of fire.

• 10.3 Possibility of hazardous reactions May form flammable/explosive vapour-air mixture.

- · 10.4 Conditions to avoid
- Sources of ignition
- Heat.
- · 10.5 Incompatible materials: Strong oxidizing agents.
- · 10.6 Hazardous decomposition products:
- Formation of toxic gases is possible during heating or in case of fire.

### **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard
- May be fatal if swallowed and enters airways.

### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- $\cdot$  12.6 Other adverse effects No further relevant information available.

(Contd. on page 7)

GB



Page 7/8

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 21.12.2018

Version number 1

Revision: 21.12.2018

Product name: Isododecane

(Contd. from page 6)

# SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

*Must not be disposed of together with household garbage. Do not allow product to reach sewage system.* • *European waste catalogue* 

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

· Uncleaned packaging:

• *Recommendation: Dispose of in accordance with national regulations.* 

14.1 UN-Number		
ADR, IMDG, IATA	UN2286	
ADR	2286 PENTAMETHYLHEPTANE	
IMDG, IATA	PENTAMETHYLHEPTANE	
14.3 Transport hazard class(es)		
ADR, IMDG, IATA		
Class	3 Flammable liquids.	
Label	3	
14.4 Packing group		
ADR, IMDĞ, IATA	III	
14.5 Environmental hazards:		
Marine pollutant:	No	
14.6 Special precautions for user	Warning: Flammable liquids.	
Danger code (Kemler):	30	
EMS Number:	F-E,S-D	
14.7 Transport in bulk according to Ann		
Marpol and the IBC Code	Not applicable.	
Transport/Additional information:		
ADR		
Limited quantities (LQ)	5L	
Transport category	3	
Tunnel restriction code	D/E	



Page 8/8

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 21.12.2018

Version number 1

Revision: 21.12.2018

(Contd. from page 7)

#### Product name: Isododecane

· UN ''Model Regulation'':

UN2286, PENTAMETHYLHEPTANE, 3, III

#### SECTION 15: Regulatory information

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

• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

#### · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic VPVB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Asp. Tox. 1: Aspiration hazard – Category 1 • Sources

Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.