

Page 1/10

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

Printing date 02.07.2020

Version number 1

Revision: 02.07.2020

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

· 1.1 Product identifier

· Product name: 1,2,3,4-Tetrahydronaphthalene

- · Part number: DRE-C20940000
- CAS Number: 119-64-2
- · EC number:
- 204-340-2
- *Index number:* 601-045-00-4
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.
- $\cdot \textit{Application of the substance / the mixture Reference material for laboratory use only}$
- 1.3 Details of the supplier of the safety data sheet
 Manufacturer/Supplier: LGC Limited Queens 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

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Further information obtainable from: Product safety department eMail : sds-request@lgcgroup.com
1.4 Emergency telephone number: For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-5970

SECTION 2: Hazards identification

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

GHS	508 health haze	urd	
Carc. 2	H351	Suspected of causing cancer.	
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.	
GHS	509 environmet	nt	
Aquatic Chron	ic 2 H411	Toxic to aquatic life with long lasting effects.	(Contd. on page 2)



Page 2/10

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

Printing date 02.07.2020

Version number 1

Revision: 02.07.2020

Product name: 1,2,3,4-Tetrahydronaphthalene

		(Contd. from pag
GHS	7	
Acute Tox. 4	Н302 На	armful if swallowed.
Skin Irrit. 2		uses skin irritation.
Eye Irrit. 2		uses serious eye irritation.
STOT SE 3	Н335-Н336 Ма	ay cause respiratory irritation. May cause drowsiness or dizziness.
2.2 Label eleme		
		(EC) No 1272/2008
		elled according to the CLP regulation.
Hazard pictogra	ms	
	YV.	
	~~~	
GHS07 GHS	08 GHS09	
Signal word Da		
Hazard stateme	nts	
	mful if swallowed.	
	ses skin irritation.	
	ses serious eye irri	tation
	pected of causing c	
		irritation. May cause drowsiness or dizziness.
		ved and enters airways.
		ith long lasting effects.
Precautionary s		in long lusting effects.
P280		a algung langta sting algebing lang anotastica frage anotastica
		e gloves/protective clothing/eye protection/face protection.
P301+P310		ED: Immediately call a POISON CENTER/ doctor.
P305+P351+P3		inse cautiously with water for several minutes. Remove contact lenses
	present and eas	sy to do. Continue rinsing.
P321	Specific treatme	ent (see on this label).
P405	Store locked up	
P501		tents/container in accordance with local/regional/national/internatio
	regulations.	
Additional info		
FIIHO10 Man f	manon. ma avplosiva parav	idas
	rm explosive perox	iues.
2.3 Other hazar		
	and vPvB assessme	ent
PBT: Not applie	able.	
vPvB: Not appli	cable.	

(Contd. on page 3)

GB



Page 3/10

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

Printing date 02.07.2020

Version number 1

Revision: 02.07.2020

Product name: 1,2,3,4-Tetrahydronaphthalene

(Contd. from page 2)

SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description
- 119-64-2 1,2,3,4-Tetrahydronaphthalene
- · Identification number(s) None
- EC number: 204-340-2
- · Index number: 601-045-00-4
- · RTECS: QK3850000
- Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

• General information:

Symptoms of poisoning may occur even after several hours; therefore medical observation for at least 48 hours after the accident is recommended.

• After inhalation:

In case of unconsciousness place patient in recovery position for transport. Seek medical treatment in case of complaints. Take affected persons into fresh air and keep quiet.

• After skin contact:

Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

• After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: Rinse mouth. Do not induce vomiting. Call for a doctor immediately.
- Seek medical treatment.
- 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.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- \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.

(Contd. on page 4)



Page 4/10

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

Printing date 02.07.2020

Version number 1

Revision: 02.07.2020

Product name: 1,2,3,4-Tetrahydronaphthalene

(Contd. from page 3)

SECTION 6: Accidental release measures

- \cdot 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- · 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system. 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.
- 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection
- 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 Store in cool, dry place in tightly closed receptacles. Open and handle receptacle with care.

· Information about fire - and explosion protection: No special measures required.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:

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.

 \cdot 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. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

(Contd. on page 5)



Page 5/10

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

Printing date 02.07.2020

Version number 1

Revision: 02.07.2020

(Contd. from page 4)

GB

Product name: 1,2,3,4-Tetrahydronaphthalene

· Respiratory protection:

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 Fluorocarbon rubber (Viton)
- \cdot 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

9.1 Information on basic physical a	nd chemical properties	
General Information		
Appearance:		
Form:	Liquid	
Colour:	Colourless	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/freezing point:	-35.8 °C	
Initial boiling point and boiling re	ange: 207.5 °C	
Flash point:	77 °C	
Flammability (solid, gas):	Not determined.	
Ignition temperature:	390 °C	
Decomposition temperature:	Not determined.	



Page 6/10

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

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Version number 1

Revision: 02.07.2020

Product name: 1,2,3,4-Tetrahydronaphthalene

	(Ce	ontd. from page 3
• Auto-ignition temperature:	Not determined.	
· Explosive properties:	May form explosive peroxides. Not determined.	
· Explosion limits:		
Lower:	0.8 Vol %	
Upper:	5 Vol %	
· Vapour pressure at 20 °C:	0.27 hPa	
· Density at 20 °C:	0.9702 g/cm ³	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water at 20 °C:	0.0045 g/l	
· Partition coefficient: n-octanol/water:	3.49 logP	
· 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.

No further relevant information available.

- 10.2 Chemical stability Stable under normal conditions.
- 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 No dangerous reactions known.
- · 10.4 Conditions to avoid 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 Harmful if swallowed.

· LD/LC50 values relevant for classification:

Oral LD50 1,580 mg/kg (rat)

(Contd. on page 7)



Page 7/10

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

Printing date 02.07.2020

Version number 1

Revision: 02.07.2020

Product name: 1,2,3,4-Tetrahydronaphthalene

(Contd. from page 6)

Dermal LD50 168,000 mg/kg (rabbit)

- Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation. • Serious eye damage/irritation
- Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Carc. 2
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity
- Suspected of causing cancer.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- · STOT-single exposure
- May cause respiratory irritation. May cause drowsiness or dizziness.
- · 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:

EC50/48 h 2.41 mg/l (crustacean)

EC50/72h 7 *mg/l* (*Algae*)

- · 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.
- · Ecotoxicological effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water

- Do not allow product to reach ground water, water course or sewage system.
- Danger to drinking water if even small quantities leak into the ground.
- Also poisonous for fish and plankton in water bodies.
- Toxic for aquatic organisms
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

(Contd. on page 8)



Page 8/10

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

Printing date 02.07.2020

Version number 1

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Product name: 1,2,3,4-Tetrahydronaphthalene

(Contd. from page 7)

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.*

IMDG LIQUID, N.O.S. (1,2,3,4-Tetrahydronaphthalene) IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (1,2,3,4-Tetrahydronaphthalene) MARINE POLLUTANT IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (1,2,3,4-Tetrahydronaphthalene) LIQUID, N.O.S. (1,2,3,4-Tetrahydronaphthalene) • IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (1,2,3,4-Tetrahydronaphthalene) LIQUID, N.O.S. (1,2,3,4-Tetrahydronaphthalene) • IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (1,2,3,4-Tetrahydronaphthalene) LIQUID, N.O.S. (1,2,3,4-Tetrahydronaphthalene) • IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE · IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE • ADR, IMDG, IATA III • ADR, IMDG, IATA Symbol (fish and tree) • Special marking (ADR): Symbol (fish and tree) <t< th=""><th>SECTION 14: Transport informat</th><th>ion</th></t<>	SECTION 14: Transport informat	ion
ADR 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCH ADR J082 ENVIRONMENTALLY HAZARDOUS SUBSTANCH IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCH LIQUID, N.O.S. (1,2,3,4-Tetrahydronaphthalene) ENVIRONMENTALLY HAZARDOUS SUBSTANCH IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCH IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCH LIQUID, N.O.S. (1,2,3,4-Tetrahydronaphthalene) Marine POLLUTANT • IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCH LIQUID, N.O.S. (1,2,3,4-Tetrahydronaphthalene) Marine POLLUTANT • ADR, IMDG, IATA IIQUID, N.O.S. (1,2,3,4-Tetrahydronaphthalene) • ADR, IMDG, IATA 9 • ADR, IMDG, IATA 9 • ADR, IMDG, IATA 111 • 14.4 Packing group . • ADR, IMDG, IATA 111 • 14.5 Environmental hazards: . • Marine pollutant: Symbol (fish and tree) • Special marking (IATA): Symbol (fish and tree) • Special precautions for user Warning: Miscellaneous dangerous substances an articles. • Danger code (Kemler): 90 • EMS Number: F-A,S-F	• 14.1 UN-Number	
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· IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCH · IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCH · IAS Transport hazard class(es) . · ADR, IMDG, IATA 9 · IAAPacking group . · ADR, IMDG, IATA III · IAAPA Packing group . · ADR, IMDG, IATA III · IAAPA INDG, IATA III · IAAPA INDG, IATA III · IAAPA INDG, IATA Symbol (fish and tree) · Special marking (ADR): Symbol (fish and tree) · Special marking (IATA): Symbol (fish and tree) · Special precautions for user Warning: Miscellaneous dangerous substances an articles. · Danger code (Kemler): 90 · EMS Number:<	·ADR	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE
LIQUID, N.O.S. (1,2,3,4-Tetrahydronaphthalene, MARINE POLLUTANT • IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (1,2,3,4-Tetrahydronaphthalene) • 14.3 Transport hazard class(es) • • ADR, IMDG, IATA • • Class 9 Miscellaneous dangerous substances and articles. • Label 9 • 14.4 Packing group • • ADR, IMDG, IATA III • 14.4 Packing group • • ADR, IMDG, IATA III • Special marking (ADR): Symbol (fish and tree) • Special marking (IATA): Symbol (fish and tree) • Ide Special precautions for user Warning: Miscellaneous dangerous substances and articles. • Danger code (Kemler): 90 • EMS Number: F-A,S-F		\sim 1
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· IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE · 14.3 Transport hazard class(es) · · ADR, IMDG, IATA · · • · · · · · · · · · · · · · · · · · ·		
LIQUID, N.O.S. (1,2,3,4-Tetrahydronaphthalene) · 14.3 Transport hazard class(es) · ADR, IMDG, IATA Image: Class · Class · Label · 14.4 Packing group · ADR, IMDG, IATA · Label · 14.4 Packing group · ADR, IMDG, IATA · III · 14.4 Packing group · ADR, IMDG, IATA · Special marking (ATA) · 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR): · Special marking (IATA): · 14.6 Special precautions for user · Warning: Miscellaneous dangerous substances an articles. · Danger code (Kemler): 90 · EMS Number: F-A,S-F		
 14.3 Transport hazard class(es) ADR, IMDG, IATA ADR, IMDG, IATA ADR, IMDG, IATA 9 Miscellaneous dangerous substances and articles. 9 14.4 Packing group ADR, IMDG, IATA 111 14.5 Environmental hazards: Marine pollutant: Symbol (fish and tree) Special marking (ADR): Symbol (fish and tree) Special marking (IATA): Symbol (fish and tree) Special precautions for user Warning: Miscellaneous dangerous substances an articles. Danger code (Kemler): 90 EMS Number: F-A,S-F 	·IATA	
 ADR, IMDG, IATA ADR, IMDG, IATA Image: Second structure ADR, IMDG, IATA III I4.4 Packing group ADR, IMDG, IATA III I4.5 Environmental hazards: Marine pollutant: Symbol (fish and tree) Special marking (ADR): Symbol (fish and tree) Special marking (IATA): Symbol (fish and tree) Special marking (IATA): I4.6 Special precautions for user Warning: Miscellaneous dangerous substances an articles. Danger code (Kemler): 90 EMS Number: F-A,S-F 		LIQUID, N.O.S. (1,2,3,4-Tetrahydronaphthalene)
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· Label 9 · 14.4 Packing group . · ADR, IMDG, IATA III · 14.5 Environmental hazards: . · Marine pollutant: Symbol (fish and tree) · Special marking (ADR): Symbol (fish and tree) · Special marking (IATA): Symbol (fish and tree) · 14.6 Special precautions for user Warning: Miscellaneous dangerous substances an articles. · Danger code (Kemler): 90 · EMS Number: F-A,S-F	· ADR, IMDG, IATA	
· Label 9 · 14.4 Packing group . · ADR, IMDG, IATA III · 14.5 Environmental hazards: . · Marine pollutant: Symbol (fish and tree) · Special marking (ADR): Symbol (fish and tree) · Special marking (IATA): Symbol (fish and tree) · 14.6 Special precautions for user Warning: Miscellaneous dangerous substances an articles. · Danger code (Kemler): 90 · EMS Number: F-A,S-F	Class	9 Miscellaneous dangerous substances and articles
· ADR, IMDG, IATAIII· 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR): · Special marking (IATA):Symbol (fish and tree) · Symbol (fish and tree)· Special marking (IATA): · 14.6 Special precautions for userWarning: Miscellaneous dangerous substances an articles. · 90 · EMS Number:		÷
· ADR, IMDG, IATAIII· 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR): · Special marking (IATA):Symbol (fish and tree) · Symbol (fish and tree) · Symbol (fish and tree)· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number:Warning: Miscellaneous dangerous substances an articles.	· 14.4 Packing group	
• Marine pollutant: Symbol (fish and tree) • Special marking (ADR): Symbol (fish and tree) • Special marking (IATA): Symbol (fish and tree) • 14.6 Special precautions for user Warning: Miscellaneous dangerous substances an articles. • Danger code (Kemler): 90 • EMS Number: F-A,S-F		III
 Special marking (ADR): Special marking (IATA): Symbol (fish and tree) 14.6 Special precautions for user Warning: Miscellaneous dangerous substances an articles. Danger code (Kemler): 90 EMS Number: F-A,S-F 	· 14.5 Environmental hazards:	
• Special marking (IATA): Symbol (fish and tree) • 14.6 Special precautions for user Warning: Miscellaneous dangerous substances an articles. • Danger code (Kemler): 90 • EMS Number: F-A,S-F		
 14.6 Special precautions for user Warning: Miscellaneous dangerous substances an articles. Danger code (Kemler): EMS Number: 		
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· Danger code (Kemler):90· EMS Number:F-A,S-F	\cdot 14.6 Special precautions for user	8
• EMS Number: F-A,S-F	· Danger code (Kemler):	
· Stowage Category A	S ()	
	· Stowage Category	A



Page 9/10

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

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Version number 1

Revision: 02.07.2020

Product name: 1,2,3,4-Tetrahydronaphthalene

• 14.7 Transport in bulk according to Ann Marpol and the IBC Code	nex II of Not applicable.
· Transport/Additional information:	
$\cdot ADR$	
· Limited quantities (LQ)	5L
\cdot Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	Ε
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOU
-	SUBSTANCE, LIQUID, N.O.S. (1,2,3,
	TETRAHYDRONAPHTHALENE), 9, III

SECTION 15: Regulatory information

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · Seveso category E2 Hazardous to the Aquatic Environment
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- 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)

(Contd. on page 10)



Page 10/10

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

Printing date 02.07.2020

Version number 1

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Product name: 1,2,3,4-Tetrahydronaphthalene

(Contd. from page 9)

GB

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Carc. 2: Carcinogenicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Asp. Tox. 1: Aspiration hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 **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.

· Data compared to the previous version altered. All sections have been updated.