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

Printing date 04.03.2020

Version number 1

Revision: 04.03.2020

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

· 1.1 Product identifier

· Product name: 2-Hydroxy-4-methoxybenzophenone (Neo Heliopan BB) 10 μg/mL in Cyclohexane

· Part number: DRE-L14232500CY

• 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 Queens Road Teddington Middlesex TW11 0LY UNITED KINGDOM

• 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

GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

GHS08 health hazard

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

GHS09 environment

Aquatic Acute 1H400Very toxic to aquatic life.Aquatic Chronic 1H410Very toxic to aquatic life with long lasting effects.

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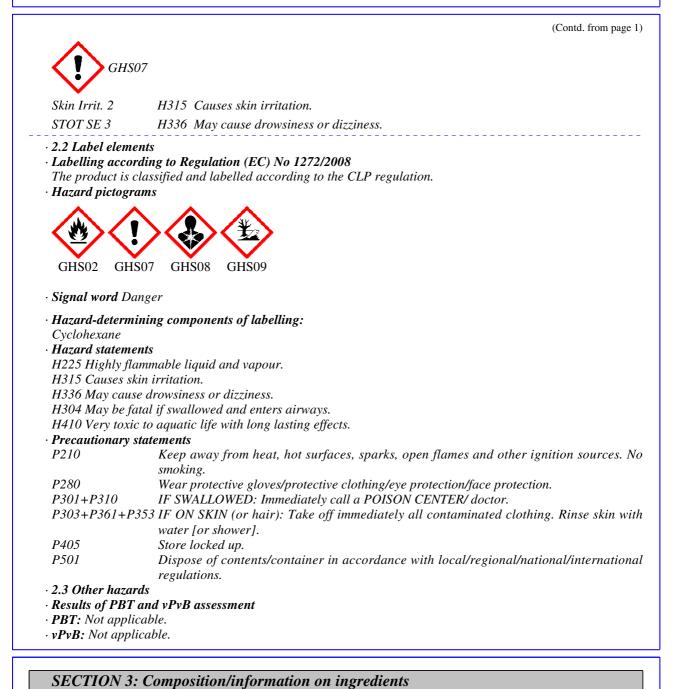
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· 3.2 Chemical characterisation: Mixtures

• Description: Mixture: consisting of the following components.



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· Dangerous components:	
CAS: 110-82-7 EINECS: 203-806-2 RTECS: GU 6300000 Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H33	, <i>H400;</i> 36 > 99%
CAS: 131-57-7 EINECS: 205-031-5 RTECS: DJ1575000 Oxybenzone Aquatic Acute 1, H400; Aquatic Chronic 2, H411	< 0.1%

• 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

• 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.
- · 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.

• 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, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 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

 \cdot 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

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Do not allow to enter sewers/ surface or ground water.	(contai nom puge
6.3 Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sa	awdust).
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 temperate	ture 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.	
Store in cool, dry conditions in well sealed receptacles.	
Protect from heat and direct sunlight.	
7.3 Specific end use(s) No further relevant information available.	

• 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:

CAS: 110-82-7 Cyclohexane

WEL Short-term value: 1050 mg/m³, 300 ppm

Long-term value: 350 mg/m³, 100 ppm

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· Odour:

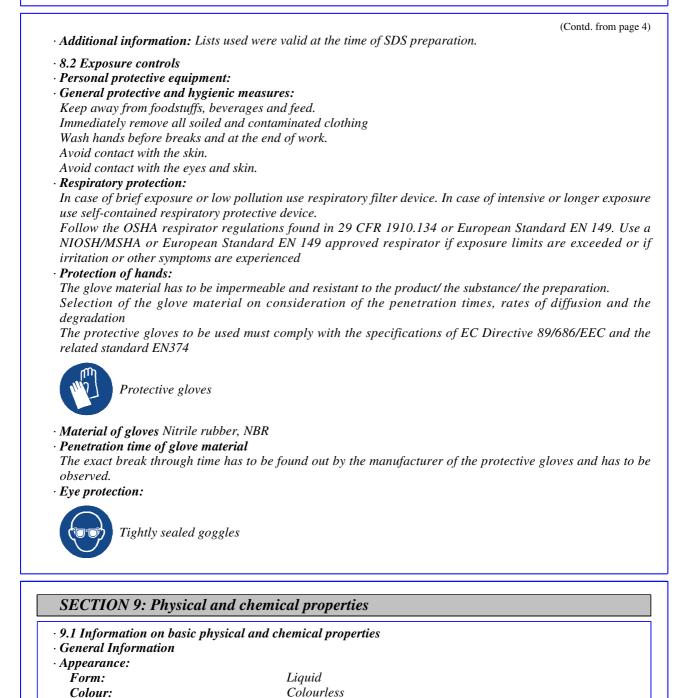
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Product name: 2-Hydroxy-4-methoxybenzophenone (Neo Heliopan BB) 10 µg/mL in Cyclohexane



Sweetish



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• Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition Melting point/freezing point: Initial boiling point and boiling range	6.4 °C :: 81 °C
· Flash point:	-18 °C
· Flammability (solid, gas):	Not determined.
· Ignition temperature:	260 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive ai vapour mixtures is possible.
· Explosion limits:	
Lower:	1.2 Vol %
Upper:	8.3 Vol %
· Vapour pressure at 20 °C:	104 hPa
Density at 20 °C:	0.78 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
water at 20 °C:	0.05 g/l
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.

• 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.

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· 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.

· LD/LC50 values relevant for classification:

CAS: 110-82-7 Cyclohexane

Oral LD50 12705 mg/kg (rat)

· Primary irritant effect:

· Skin corrosion/irritation

Causes skin irritation.

· 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

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: 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.
- · Ecotoxicological effects:
- · Remark: Very toxic for fish
- \cdot Additional ecological information:

· General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

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· 12.6 Other adverse effects No further relevant information available.

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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.

SECTION 14: Transport information		
· 14.1 UN-Number · ADR, IMDG, IATA · ADR	UN1145 1145 CYCLOHEXANE mixture, ENVIRONMENTALL HAZARDOUS	
· IMDG · IATA	CYCLOHEXANE mixture, MARINE POLLUTANT CYCLOHEXANE mixture	
· 14.3 Transport hazard class(es)		
· ADR, IMDG		
· Class	3 Flammable liquids.	
·Label	3	
· Class	3 Flammable liquids.	
· Label	3	
· 14.4 Packing group · ADR, IMDG, IATA	II	
· 14.5 Environmental hazards:	Product contains environmentally hazardous substance. Cyclohexane	
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• Marine pollutant:	Yes
	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Danger code (Kemler):	33
· EMŠ Number:	F-E,S-D
· 14.7 Transport in bulk according to An	nex II of
Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
·ADR	
· Limited quantities (LQ)	1L
· Transport category	2
· Tunnel restriction code	D/E
· UN "Model Regulation":	UN1145, CYCLOHEXANE mixture, ENVIRONMENTALL HAZARDOUS, 3, II

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, 57

• 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 ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Asp. Tox. 1: Aspiration hazard – Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic 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.