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

1.1 Product identifier

- Product name: N-Phenyl-1-(2-phenylethyl)piperidin-4-amine
- Part number: MM0528.04
- CAS Number: 21409-26-7

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

No further relevant information available.

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

- 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

GHS06 skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.
Acute Tox. 3 H311 Toxic in contact with skin.
Acute Tox. 3 H331 Toxic if inhaled.

GHS08 health hazard

Repr. 2 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H336 May cause drowsiness or dizziness.

2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008
  The substance is classified and labelled according to the CLP regulation.

(Contd. on page 2)
Product name: N-Phenyl-1-(2-phenylethyl)piperidin-4-amine

- **Hazard pictograms**
  - GHS06
  - GHS08

- **Signal word** Danger

- **Hazard statements**
  - $H301+H311+H331$ Toxic if swallowed, in contact with skin or if inhaled.
  - $H317$ May cause an allergic skin reaction.
  - $H361jd$ Suspected of damaging fertility. Suspected of damaging the unborn child.
  - $H336$ May cause drowsiness or dizziness.

- **Precautionary statements**
  - $P261$ Avoid breathing dust/fume/gas/mist/vapours/spray.
  - $P280$ Wear protective gloves/protective clothing/eye protection/face protection.
  - $P301+P310$ IF SWALLOWED: Immediately call a POISON CENTER/doctor.
  - $P321$ Specific treatment (see on this label).
  - $P405$ 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.

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

- **3.1 Chemical characterisation: Substances**
  - **CAS No. Description**
    - 21409-26-7 N-Phenyl-1-(2-phenylethyl)piperidin-4-amine
  - **Identification number(s)** None
  - **RTECS:** -
  - **Additional information:** For the wording of the listed hazard phrases refer to section 16.

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**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
  - **General information:**
    - Immediately remove any clothing soiled by the product.
    - Remove breathing equipment only after contaminated clothing has been completely removed.
    - In case of irregular breathing or respiratory arrest provide artificial respiration.
  - **After inhalation:**
    - Supply fresh air or oxygen; call for doctor.
    - In case of unconsciousness place patient in recovery position for transport.
    - Seek immediate medical advice.
Safety data sheet  
according to 1907/2006/EC, Article 31

Printing date 07.11.2018  
Revision: 07.11.2018  
Version number 1

Product name: N-Phenyl-1-(2-phenylethyl)piperidin-4-amine

· After skin contact:  
  Immediately wash with water and soap and rinse thoroughly.  
  Seek immediate medical advice.

· After eye contact:  
  Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:  
  Rinse mouth. Do not induce vomiting.  
  Call for a doctor immediately.

· 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: Use fire extinguishing methods suitable for surrounding conditions.

· 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:  
  • Mouth respiratory protective device.  
  • Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures  
  Avoid formation of dust.

· 6.2 Environmental precautions:  
  Do not allow to enter sewers/surface or ground water.

· 6.3 Methods and material for containment and cleaning up:  
  Dispose of contaminated material as waste according to item 13.  
  Ensure adequate ventilation.

· 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.  
  Remove dust thoroughly.  
  Store in cool, dry place in tightly closed receptacles.  
  Open and handle receptacle with care.

· Information about fire - and explosion protection:  
  Keep respiratory protective device available.
Product name: N-Phenyl-1-(2-phenylethyl)piperidin-4-amine

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.

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

SECTION 8: Exposure controls/personal protection

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.
    Store protective clothing separately.
    Avoid contact with the eyes and skin.
  - 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.

- Material of gloves: Butyl rubber, BR
- 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.
### SECTION 9: Physical and chemical properties

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

**General Information**

- **Appearance:** Solid
- **Colour:** Off white
- **Odour:** Odourless
- **Odour threshold:** Not determined.

**pH-value:** Not applicable.

- **Change in condition**
  - **Melting point/freezing point:** 90-101 °C
  - **Initial boiling point and boiling range:** Not determined.

- **Flash point:** Not applicable.

- **Flammability (solid, gas):** Not determined.

- **Ignition temperature:** Not determined

- **Decomposition temperature:** Not determined.

- **Auto-ignition temperature:** Not determined.

- **Explosive properties:** Not determined.

- **Explosion limits:**
  - **Lower:** Not determined.
  - **Upper:** Not determined.

- **Vapour pressure:** Not applicable.

- **Density:** Not determined.

- **Relative density**
  - Not determined.

- **Vapour density**
  - Not applicable.

- **Evaporation rate**
  - Not applicable.

- **Solubility in / Miscibility with water:** Not determined.

- **Partition coefficient: n-octanol/water:** Not determined.

- **Viscosity:**
  - **Dynamic:** Not applicable.
  - **Kinematic:** Not applicable.

#### 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.
  Sources of ignition
- 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
    Toxic if swallowed, in contact with skin or if inhaled.
  - 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
    May cause an allergic skin reaction.
  - CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
    Rep. 2
    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
    Suspected of damaging fertility. Suspected of damaging the unborn child.
  - STOT-single exposure
    May cause drowsiness or dizziness.
  - STOT-repeated exposure Based on available data, the classification criteria are not met.
  - Aspiration hazard Based on available data, the classification criteria are not met.

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) (Self-assessment): slightly hazardous for water
      Do not allow undiluted product to reach ground water, water course or sewage system.

(Contd. on page 7)
12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

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.

13.2 European waste catalogue
- Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

13.3 Uncleaned packaging:
- Recommendation: Dispose of in accordance with national regulations.

SECTION 14: Transport information

14.1 UN-Number
- ADR, IMDG, IATA UN2811
- ADR 2811 TOXIC SOLID, ORGANIC, N.O.S. (N-Phenyl-1-(2-phenylethyl)piperidin-4-amine)
- IMDG, IATA TOXIC SOLID, ORGANIC, N.O.S. (N-Phenyl-1-(2-phenylethyl)piperidin-4-amine)

14.3 Transport hazard class(es)
- ADR, IMDG, IATA
  - Class 6.1 Toxic substances.
  - Label 6.1

14.4 Packing group
- ADR, IMDG, IATA III

14.5 Environmental hazards:
- Not applicable.

14.6 Special precautions for user
- Warning: Toxic substances.
- Danger code (Kemler): 60
- EMS Number: F-A,S-A

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
- Not applicable.
Product name: N-Phenyl-1-(2-phenylethyl)piperidin-4-amine

Transport/Additional information:

- ADR
- Limited quantities (LQ) 5 kg
  Code: E1
  Maximum net quantity per inner packaging: 30 g
  Maximum net quantity per outer packaging: 1000 g
- Excepted quantities (EQ)
- Transport category 2
- Tunnel restriction code E
- UN “Model Regulation”: UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (N-PHENYL-1-(2-PHENYLETHYL)PIPERIDIN-4-AMINE), 6.1, 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 H2 ACUTE TOXIC
  - Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
  - Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- National regulations:
  - Other regulations, limitations and prohibitive regulations
  The substance is considered a controlled drug in some countries and needs to be treated according to the applicable regulations.
- 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, however 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
CAS: Chemical Abstracts Service (division of the American Chemical Society)
PBT: Persistent, Bioaccumulative and Toxic
Product name: N-Phenyl-1-(2-phenylethyl)piperidin-4-amine

vPvB: very Persistent and very Bioaccumulative
Acute Tox. 3: Acute toxicity – Category 3
Skin Sens. 1: Skin sensitisation – Category 1
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Sources

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