

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

1.1 Product identifier

Product name:

CAS Number: EC Number: N-CYCLOHEXYL-N'-PHENYL-P-PHENYLENEDIAMINE 101-87-1 202-984-9

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

Product use: Uses advised against: Laboratory use No information available

1.3 Details of the supplier of the safety data sheet

Company name:

East Harbour Group Ltd Miranda House, The Quay Harwich, Essex, CO12 3HH United Kingdom

Telephone: Email: +44 (0) 333 242 0100 info@eastharbourgroup.com

1.4 Emergency telephone number

Emergency telephone:

0800 246 1274

Section 2: Hazardous identification

2.1 Classification of the substance or mixture

| Regulation (| EC) No 1272/2008 | |
|--------------|------------------|-----------------------------------|
| H319 | Category 2 | Serious eye damage/eye irritation |
| H317 | Category 1 | Skin sensitisation |
| H411 | Category 2 | Chronic aquatic toxicity |

2.2 Label elements

Contains N-CYCLOHEXYL-N'-PHENYL-P-PHENYLENEDIAMINE



Warning

Hazard statements

- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H411 Toxic to aquatic life with long lasting effects



Precautionary statements - EU (§28, 1272/2008)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P273 Avoid release to the environment

P280 Wear protective gloves and eye/face protection

P337 + P313 If eye irritation persists: Get medical advice/attention

P391 Collect spillage

2.3. Other hazards

No information available.

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII

| Chemical name | EU- REACH (1907/2006)-Article | EU – REACH (1907/2006) – |
|---------------------------|---------------------------------|--------------------------------|
| | 59(1) – Candidate List of | Endocrine Disruptor Assessment |
| | Substances of Very High Concern | List of Substances |
| | (SVHC) for Authorisation | |
| N-CYCLOHEXYL-N'-PHENYL-P- | - | - |
| PHENYLENEDIAMINE | | |

Section 3: Composition/information on ingredients

3.1 Substances Chemical Name

CAS No. Weight -% REACH Registration number EC No Classification according to Regulation (EC) No. 1272/2008 [CLP]

N-CYCLOHEXYL-N'-PHENYL-P-PHENYLENEDIAMINE 101-87-1 100 -202-984-9 Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)

Specific concentration limit (SCL) M-Factor M-Factor (long-term)

Full text of H- and EUH-phrases: see section 16 Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components.

Chemical Name

Oral LD50 mg/kg Dermal LD50 mg/kg Inhalation LC50 – 4hour – dust/mist – mg/L Inhalation LC50 – 4hour – vapour – mg/L Inhalation LC50 – 4hour – gas – ppm N-CYCLOHEXYL-N'-PHENYL-P-PHENYLENEDIAMINE 2000 No data available No data available No data available No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Document Number: 428 Version Number: 1 Date: 06.12.2022



Section 4: First aid measures

4.1 Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

Skin contact

Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor.

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor. Self-protection of the first aider

Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

4.2 Most important symptoms and effects, both acute and delayed

Symptoms Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

4.3 Indication of any immediate medical attention and special treatment needed

Note to doctors May cause sensitisation in susceptible persons. Treat symptomatically

Section 5: Fire-fighting measures

5.1 Fire Fighting Media and Instructions:

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Large Fire: Caution – Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams

5.2 Special hazards arising from the substance or mixture

Product is or contains a sensitiser. May cause sensitisation by skin contact.

5.3 Advice for firefighters

Special protective equipment precautions for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. **Other information**

Refer to protective measures listed in Sections 7 and 8.



For emergency responders

Use personal protection recommended in Section 8.

6.2 Environmental precautions

See Section 12 for additional Ecological Information.

6.3 Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so. **Methods for cleaning up**: Take up mechanically, placing in appropriate containers for disposal. **Prevention of secondary hazards:** Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information

Section 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. **General hygiene considerations**

Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

7.2 Conditions for safe storage, including any incompatibilities

Storage Conditions

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 containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

Section 8: Exposure controls/personal protection

8.1 Control parameters

| Exposure Limits | | | | | |
|-----------------------------------|----------|-----------------|-----------------|----------|---------|
| Chemical Name | France | Germany | Germany MAK | Greece | Hungary |
| N-cyclohexyl-N'-phenyl-p- | - | Skin sensitiser | Skin sensitiser | - | - |
| phenylenediamine CAS No:101-87-1 | | | | | |
| Chemical Name | Portugal | Romania | Slovakia | Slovenia | Spain |
| N-cyclohexyl-N'-phenyl-p- | - | - | Sensitiser | - | - |
| phenylenediamine CAS No: 101-87-1 | | | | | |

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region-specific regulatory bodies



Derived No Effect Level (DNEL) Predicted No Effect Concentration (PNEC)

No information available. No information available.

8.2 Exposure controls / Appropriate engineering controls

Personal protective equipment

Eye/face protection: Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Hand protection: The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective butyl rubber gloves. Wear suitable gloves.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations

Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

Environmental exposure controls

Do not allow into any sewer, on the ground or into any body of water

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Appearance Colour Odour Odour threshold Melting point/freezing point Boiling point / boiling range Flammability (solid, gas) Flammability Limit in Air Upper flammability or explosive limits Lower flammability or explosive limits Flash point Autoignition temperature Decomposition temperature pН pH (as aqueous solution) Kinematic viscositv Dynamic viscosity Water solubility Solubility(ies) Partition coefficient Vapour pressure Relative density Bulk density Liquid Density Relative vapour density Particle characteristics Particle Size Particle Size Distribution

Solid Solid Brown No information available No information available 112 - 114°C No data available No data available None known

No data available No data available No data available No data available

No data available No data available No data available No data available No data available Chloroform, Methanol, slightly soluble No data available No data available

None known None known None known None known No information available None known None known None known

None known None known None known

None known

No information available No information available



9.2 Other information Molecular weight Molecular formula

266.42 C18 H22 N2

9.2.1 Information with regards to physical hazard classes Not applicable

9.2.2 Other safety characteristics No information available

Section 10: Stability and Reactivity

10.1 Reactivity
10.2 Chemical Stability
Explosion data
Sensitivity to mechanical impact
Sensitivity to static discharge
10.3 Possibility of hazardous reactions
10.4 Conditions to avoid
10.5 Incompatible materials
10.6 Hazardous decomposition products

No information available Stable under normal conditions

None None under normal processing None known based on information supplied None known based on information supplied None known based on information supplied

Section 11: Toxicological Information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Information on likely routes of exposure **Product Information** Inhalation Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation. (Based on components). May cause redness, itching, and pain. May cause sensitisation by skin contact. Specific test data for the substance or Skin contact mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (Based on components). May cause irritation. Prolonged contact may cause redness and irritation. Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristicsSymptomsItching. Rashes. Hives. May cause redness and tearing of the eyes.

| Numerical measures of tox | icity |
|------------------------------|---|
| Acute toxicity | |
| Component Information | |
| Chemical name | N-cyclohexyl-N'-phenyl-p-phenylenediamine |
| Oral LD50 | > 2 g/kg (Rat) |
| Dermal LD50 | - |
| Inhalation LC50 | - |
| Delayed and immediate e | ffects as well as chronic effects from short ar |

Delayed and immediate effects as well as chronic effects from short and long-term exposure



Skin corrosion/irritation: May cause skin irritation.

Serious eye damage/eye irritation: Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitisation: May cause sensitisation by skin contact.

Germ cell mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive toxicity: No information available.

STOT - single exposure: No information available.

STOT - repeated exposure: No information available.

Aspiration hazard: No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties Endocrine disrupting properties: No information available.

11.2.2 Other informationOther adverse effectsNo information available

Section 12: Ecological Information

12.1. Toxicity Ecotoxicity

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability Persistence and degradability No information available.

12.3. Bioaccumulative potential Bioaccumulation No information available.

12.4. Mobility in soil Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment PBT and vPvB assessment No information available.

12.6. Endocrine disrupting properties Endocrine disrupting properties No information available.

12.7. Other adverse effects No information available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Do not reuse empty containers.

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Section 14: Transport Information

ΙΑΤΑ

14.1 UN number or ID number 14.2 UN proper shipping name

14.3 Transport hazard class(es)14.4 Packing groupDescription

14.5 Environmental hazards 14.6 Special precautions for user Special Provisions ERG Code

IMDG

14.1 UN number or ID number 14.2 UN proper shipping name

14.3 Transport hazard class(es) 14.4 Packing group Description

14.5 Marine pollutant
Environmental hazards
14.6 Special precautions for user
Special Provisions
EmS-No
14.7 Maritime transport in bulk
according to IMO instruments

RID

14.1 UN number or ID number 14.2 UN proper shipping name

14.3 Transport hazard class(es) 14.4 Packing group Description

14.5 Environmental hazards 14.6 Special precautions for user Special Provisions Classification code

ADR

14.1 UN number or ID number 14.2 UN proper shipping name

14.3 Transport hazard class(es) 14.4 Packing group

UN3077

Environmentally hazardous substances, solid, n.o.s. (Ncyclohexyl-N'-phenyl-p-phenylenediamine) 9

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UN3077, Environmentally hazardous substances, solid, n.o.s. (N-cyclohexyl-N'-phenyl-p-phenylenediamine), 9, III Yes

A97, A158, A179, A197, A215 9L

UN3077

Environmentally hazardous substances, solid, n.o.s. (Ncyclohexyl-N'-phenyl-p-phenylenediamine) 9

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UN3077, Environmentally hazardous substances, solid, n.o.s. (N-cyclohexyl-N'-phenyl-p-phenylenediamine), 9, III, Marine pollutant

Yes

274, 335, 966, 967, 969 F-A, S-F No information available

No information available

UN3077

Environmentally hazardous substances, solid, n.o.s. (N-cyclohexyl-N'-phenyl-p-phenylenediamine)

9 III

UN3077, Environmentally hazardous substances, solid, n.o.s. (N-cyclohexyl-N'-phenyl-p-phenylenediamine), 9, III Yes

274, 335, 375, 601 M7

UN3077 Environmentally hazardous substances, (N-cyclohexyl-N'phenyl-p-phenylenediamine) 9

ÎП.



Description

14.5 Environmental hazards14.6 Special precautions for userSpecial ProvisionsClassification codeTunnel restriction code

UN3077, Environmentally hazardous substances, solid, n.o.s. (N-cyclohexyl-N'-phenyl-p-phenylenediamine), 9, III, (-) Yes

274, 335, 601, 375 M7 (-)

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15: Regulatory Information

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

Germany

Water hazard class (WGK)

obviously hazardous to water (WGK 2)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use: This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors Not applicable

Persistent Organic PollutantsNot applicableDangerous substance category per Seveso Directive (2012/18/EU)E2 - Hazardous to the Aquatic Environment in Category Chronic 2Ozone-depleting substances (ODS) regulation (EC) 1005/2009Not applicable

International Inventories TSCA DSL/NDSL EINECS/ELINCS ENCS IECSC KECL PICCS AICS

Contact supplier for inventory compliance status Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances



AICS - Australian Inventory of Chemical Substances

Section 16: Other Information

Full text of H-Statements referred to under section 3

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H411 - Toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
|---------|-----------------------------|------|----------------------------------|
| Ceiling | Maximum limit value | * | Skin designation |

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 **Disclaimer**

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.