

SAFETY DATA SHEET
Cyclohexylamine

Page 1
Issued: 16/02/2022
Revision No: 6

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product name: CYCLOHEXYLAMINE

Chemical name: CYCLOHEXYLAMINE

Product number: CYCHXLMNE, 4D

REACH registration number: 01-2119486803-29-XXXX

REACH registration notes: This product is REACH compliant either through pre-registration or registration subject to volume threshold deadline. However please note we may have dual sources for some products. As a result, the product you have purchased may not be covered by the registration number listed above. Please contact the email address in section 1.3 for specific information on your purchase. REACH registration only covers products which OQEMA have imported into Europe or sourced within Europe. If the product is sold directly outside Europe this is not covered under the registration. It is the responsibility of the subsequent importer into Europe to ensure their volume of product is covered under the REACH regulations.

CAS number: 108-91-8

EC number: 203-629-0

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

Identified uses: PC21: Laboratory chemicals Corrosion inhibitor. Intermediate in chemical synthesis.
PC19: Intermediate

Company name: Nexchem Ltd
Unit 3 Barshaw Park
Leycroft Road
Leicester
LE4 1ET
Tel: 0116 2311130
24/7 Emergency Tel: 0800 246 1274
Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification (EC 1272/2008):

Physical hazards: Flam. Liq. 3 - H226

Health hazards: Acute Tox. 3 - H301 Acute Tox. 3 - H311 Skin Corr. 1B - H314 Repr. 2 - H361f

Environmental hazards: Not Classified

Label elements:

EC number: 203-629-0

SAFETY DATA SHEET

Cyclohexylamine

Issued: 16/02/2022

Page 2

Hazard pictograms:



Signal Word:

Danger.

Hazard Statements:

H226 Flammable liquid and vapour.

H301+H311 Toxic if swallowed or in contact with skin.

H314 Causes severe skin burns and eye damage.

H361f Suspected of damaging fertility.

Precautionary Statement:

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P310 Immediately call a POISON CENTER or doctor/physician.

P405 Store locked up.

Supplementary Precautionary Statements: P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe vapour/ spray.

P264 Wash contaminated skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of water.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/ attention.

P312 Call a POISON CENTRE/doctor if you feel unwell.

P321 Specific treatment (see medical advice on this label).

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

[cont...]

SAFETY DATA SHEET

Cyclohexylamine

Issued: 16/02/2022

Page 3

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container in accordance with national regulations.

Contains: Cyclohexylamine

Other hazards:

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures: CYCLOHEXYLAMINE >99.5%
CAS number: 108-91-8
EC number: 203-629-0

Classification: Flam. Liq. 3 - H226
Acute Tox. 3 - H301
Acute Tox. 3 - H311
Skin Corr. 1B - H314
Repr. 2 - H361f

The full text for all hazard statements is displayed in Section 16.

4. FIRST AID MEASURES

Description of first aid measures:

General information: Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident is required.

Inhalation: Get medical attention immediately. Move affected person to fresh air at once. Keep affected person warm and at rest. If it is suspected that airborne contaminants are still present around the affected person, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. If breathing stops, provide artificial respiration. Use rescuer protection (pocket mask, etc). When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. Effect of exposure to substance may be delayed. Medical observation is indicated.

Ingestion: Get medical attention immediately. Rinse mouth thoroughly with water. Move affected person to fresh air at once. Keep affected person warm and at rest. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting. If vomiting occurs turn patient on side. Chemical burns must be treated by a physician. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

[cont...]

SAFETY DATA SHEET

Cyclohexylamine

Issued: 16/02/2022

Page 4

Skin contact:	Get medical attention immediately. Remove affected person from source of contamination. Rinse immediately with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Chemical burns must be treated by a physician. Wash clothing and clean shoes thoroughly before reuse.
Eye contact:	Get medical attention immediately. Flush eyes immediately with plenty of flowing water for 10-15 minutes, holding the eyelids apart. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes. Chemical burns must be treated by a physician.
Protection of first aiders:	No information available.
Most important symptoms and effects, both acute and delayed:	
General information:	No information available.
Inhalation:	No information available.
Ingestion:	No information available.
Skin contact:	No information available.
Eye contact:	No information available.
Indication of any immediate medical attention and special treatment needed:	
Notes for the doctor:	No information available.
Specific treatments:	No information available.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture:

Specific hazards: The product is flammable. Heating may cause a fire or explosion. Fire-water run-off in sewers may create fire or explosion hazard. Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO₂). Oxides of nitrogen.

Hazardous combustion products: No information available.

Advice for firefighters:

Protective actions during firefighting: Evacuate area. No action shall be taken without appropriate training or involving any personal risk. Move containers from fire area if it can be done without risk. Use water spray to cool unopened containers.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

[cont...]

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures:**

Personal precautions: Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Do not touch or walk into spilled material. No smoking, sparks, flames or other sources of ignition near spillage. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.

For non-emergency personnel: No information available.

For emergency responders: No information available.

Environmental precautions:

Environmental precautions: Do not allow product to reach soil, waterways, drains and sewers. Do not allow to enter surface water, drains and ground water. Inform the relevant authorities if the product has caused environmental pollution (soil, waterways, drains or sewers).

Methods and material for containment and cleaning up:

Methods for cleaning up: Large Spillages: Stop leak if safe to do so. Move containers from spillage area. Contain and collect spillage with non-combustible, absorbent material e.g., sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use only non-sparking tools. All contaminated materials from the cleaning-up operation must be disposed of as hazardous waste.

Small Spillages: Stop leak if safe to do so. Move containers from spillage area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use only non-sparking tools. Use explosion proof equipment. Dispose of waste via a licensed waste disposal contractor.

Reference to other sections:

Reference to other sections: See Section 1 for emergency contact information. See Section 7 for information on safe handling. See section 8 for national exposure control parameters. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

7. HANDLING AND STORAGE**Precautions for safe handling:**

Usage precautions: Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust and contact with skin and eyes. Do not ingest. Provide adequate ventilation. If ventilation is inadequate, suitable respiratory protection must be worn. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Use explosion proof electric equipment. Take precautionary measures against static discharges. Earth container and transfer equipment to eliminate sparks from static electricity.

SAFETY DATA SHEET

Cyclohexylamine

Issued: 16/02/2022

Page 6

Advice on general occupational hygiene: Follow good hygiene practices. Avoid contact with eyes and skin. Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product. Wash skin thoroughly after handling. Take off contaminated clothing. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities:

Storage precautions Store in accordance with local regulations. Do not enter storage areas or confined spaces unless adequately ventilated. Store in tightly closed, original container in a well-ventilated place. Protect from sunlight. Keep away from incompatible materials (see section 10) and food and drink Store locked up. Keep container tightly sealed when not in use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep containers upright. Only store in correctly labelled containers. Use appropriate containment to avoid environmental contamination.

Storage class: No information available.

Specific end use(s): The identified uses for this product are detailed in Section 1.2.

Usage description: No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Occupational exposure limits: No information available.

CYCLOHEXYLAMINE:

Long-term exposure limit (8-hour TWA): WEL 10 ppm 41 mg/m³

Short-term exposure limit (15-minute): WEL

WEL = Workplace Exposure Limit.

Ingredient comments: No information available.

Biological limit values: No information available.

DNEL:

Workers - Inhalation; Long term systemic effects: 5 mg/m³
Workers - Inhalation; Short term systemic effects: 8.2 mg/m³
Workers - Dermal; Long term systemic effects: 0.4 mg/kg/day
Workers - Dermal; Short term systemic effects: 0.8 mg/kg/day
General population - Inhalation; Long term systemic effects: 0.6 mg/m³
General population - Inhalation; Short term systemic effects: 1.2 mg/m³
General population - Dermal; Long term systemic effects: 0.2 mg/kg/day
General population - Dermal; Short term systemic effects: 0.4 mg/kg/day
General population - Oral; Long term systemic effects: 0.2 mg/kg/day
General population - Oral; Short term systemic effects: 0.4 mg/kg/day

[cont...]

SAFETY DATA SHEET

Cyclohexylamine

Issued: 16/02/2022

Page 7

DMEL: No information available.

PNEC: Fresh water; 0.016 mg/l
Marine water; 0.002 mg/l
STP; 22.52 mg/l
Sediment (Freshwater); 4.1 mg/kg
Sediment (Marine water); 0.41 mg/kg
Soil; 0.805 mg/kg

Exposure controls:

Protective equipment:

Appropriate engineering controls: As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist. Use explosion-proof ventilating equipment. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Emergency shower and eye wash facilities should be readily available

Personal protection: No information available.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases and dusts, Chemical goggles or safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Fluoro carbon rubber (FKM) is recommended 0.4mm Polyvinyl chloride (PVC). Penetration time of the glove material >8 hours To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection: Body protection must be chosen depending on activity and possible exposure, e.g., apron, protecting boots, chemical-protection suit (according to DIN-EN 465). Chemical resistant boots should comply with European standard EN345.

Hygiene measures: Avoid contact with skin, eyes and clothing General industrial hygiene practice Keep away from foodstuffs, beverages and feed. Wash skin thoroughly after handling. Promptly remove any clothing that becomes contaminated. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

[cont...]

SAFETY DATA SHEET

Cyclohexylamine

Issued: 16/02/2022

Page 8

Respiratory protection: Use a properly fitting air-purifying or air fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the respirator. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination or type ABEK (EN 14387). If their respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH or CEN.

Thermal hazards: No information available.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance: Liquid.

Colour: Colourless to pale yellow.

Odour: Amine-like

Odour threshold: No information available.

pH: No information available.

Melting point: -17°C

Initial boiling point and range: 134.5°C @ 1013 hPa

Flash point: 28°C Closed cup.

Evaporation rate: No information available.

Evaporation factor: No information available.

Flammability (solid, gas): No information available.

Upper/lower flammability or explosive limits: No information available.

Other flammability: Flammable

Vapour pressure: No information available.

Vapour density: No information available.

Relative density: 0.8647 @ 25°C

Bulk density: No information available.

Solubility(ies): 100 000 mg/l water @ 20°C Completely soluble in water.

Partition coefficient: log Kow: 3.7

Auto-ignition temperature: 293°C

Decomposition Temperature: No information available.

Viscosity: 2.1 mPa s @ 20°C

Explosive properties: Not considered to be explosive.

Explosive under the influence of a flame: No information available.

Oxidising properties: Does not meet the criteria for classification as oxidising.

[cont...]

SAFETY DATA SHEET

Cyclohexylamine

Issued: 16/02/2022

Page 9

Comments:	No information available.
Other information:	No information available.
Refractive index:	No information available.
Particle size:	No information available.
Molecular weight:	No information available.
Volatility:	No information available.
Saturation concentration:	No information available.
Critical temperature:	No information available.
Volatile organic compound:	No information available.

10. STABILITY AND REACTIVITY

Reactivity: No information available.

Chemical stability:

Stability: Stable under the prescribed storage and handling conditions.

Possibility of hazardous reactions: No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid: Avoid heat, flames and other sources of ignition.
Do not pressurise, cut, weld, drill, grind or otherwise expose containers to heat or sources of ignition.

Incompatible materials:

Materials to avoid: Oxidising agents.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Toxicological effects: No information available.

Other health effects: No information available.

Acute toxicity – oral:

Notes (oral LD₅₀): LD₅₀ 432 mg/kg, Oral, Rat NOAEL 25 mg/kg, Oral, Rat klimisch 2 1968

ATE oral (mg/kg): 100.0

Acute toxicity – dermal:

Notes (dermal LD₅₀): LD₅₀ 275 mg/kg, Dermal, Rabbit klimisch 4 1969

ATE dermal (mg/kg): 300.0

Acute toxicity – inhalation:

Notes (inhalation LC₅₀): No information available.

[cont...]

SAFETY DATA SHEET

Cyclohexylamine

Issued: 16/02/2022

Page 10

Skin corrosion/irritation:

Animal data: Dose: , 20 hours, Rabbit Corrosive. klimisch 2 1970
Human skin model test: No information available.
Extreme pH: No information available.

Serious eye damage/irritation:

Serious eye damage/irritation: Dose: 0.5 ml, 1 hour, Rabbit Category 1 for irreversible effects on the eye according to UN/EU GHS classification klimisch rating 2 1970

Respiratory sensitisation:

Respiratory sensitisation: No information available.

Skin sensitisation:

Skin sensitisation: No information available.

Germ cell mutagenicity:

Genotoxicity - in vitro: Bacterial reverse mutation test: Negative. Klimisch rating 1 1986 OECD 471 Gene mutation: Negative. klimisch 2 1989 DNA damage and/or repair: Negative. klimisch 2 1989.
Genotoxicity - in vivo: No information available.

Carcinogenicity:

Carcinogenicity: NOAEL 1000 ppm, Oral, Mouse Does not contain any substances known to be carcinogenic. klimisch 2 1976

Target organ for carcinogenicity: No information available.

IARC carcinogenicity: No information available.

NTP carcinogenicity: No information available.

Reproductive toxicity:

Reproductive toxicity – fertility: Suspected of damaging fertility.

Reproductive toxicity – development: No information available.

Specific target organ toxicity - single exposure:

STOT - single exposure: No information available.

Target organs: No information available.

Specific target organ toxicity - repeated exposure:

STOT - repeated exposure: LOAEL 600 ppm, Oral, Rat NOAEL 1000 ppm, Oral, Rat klimisch 2 1976 NOAEL 15 mg/kg, Oral, Rat klimisch 2 1972

Target organs: No information available.

Aspiration hazard:

Aspiration hazard: No information available.

[cont...]

SAFETY DATA SHEET

Cyclohexylamine

Issued: 16/02/2022

Page 11

Toxicokinetic:	No information available.
General information:	No information available.
Inhalation:	No information available.
Ingestion:	No information available.
Skin contact:	No information available.
Eye contact:	No information available.
Acute and chronic health hazards:	No information available.
Route of exposure:	No information available.
Target organs:	No information available.
Medical symptoms:	No information available.
Medical considerations:	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No information available.

Toxicity: No information available.

Acute aquatic toxicity:

Acute toxicity – fish: LC₅₀, 14 days: 19 mg/l, *Oryzias latipes* (Red killifish)
klimisch rating 2
1997
OECD Guideline 204

Acute toxicity – aquatic invertebrates: EC₅₀, 48 hours: 36.3 mg/l, *Daphnia magna*
klimisch rating 2
1997
OECD 202

Acute toxicity - aquatic plants: NOEC, 72 hours: 10.3 mg/l, *Pseudokirchneriella subcapitata*
EC₅₀, 72 hours: 29.3 mg/l, *Pseudokirchneriella subcapitata*
klimisch rating 2
1997
OECD 201

Acute toxicity – microorganisms: EC₅₀, 3 hours: 2152 mg/l, Activated sludge
EC₁₀, 3 hours: 326 mg/l, Activated sludge
klimisch rating 2
1990
ISO 8192

Acute toxicity – terrestrial: No information available.

[cont...]

SAFETY DATA SHEET

Cyclohexylamine

Issued: 16/02/2022

Page 12

Chronic aquatic toxicity:

Chronic toxicity - fish early life stage: No information available.

Short term toxicity – embryo and sac fry stages: No information available.

Chronic toxicity – aquatic invertebrates: NOEC, 21 days: 1.6 mg/l, Daphnia magna

EC₅₀, 21 days: 3.9 mg/l, Daphnia magna

LC₅₀, 21 days: 24.2 mg/l, Daphnia magna

klimisch rating 2

1997

OECD 211

Toxicity to soil: No information available.

Toxicity to terrestrial plants: No information available.

Persistence and degradability: The product is readily biodegradable.

Photo transformation: No information available.

Stability (hydrolysis): No information available.

Biodegradation: No information available.

Biological oxygen demand: No information available.

Chemical oxygen demand: No information available.

Bioaccumulative potential: Low.

Partition coefficient: log K_{ow}: 3.7

Mobility in soil:

Mobility: No information available.

Adsorption/desorption coefficient: No information available.

Henry's law constant: No information available.

Surface tension: No information available.

Results of PBT and vPvB assessment: No information available.

Other adverse effects: No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

General information: Disposal should be in accordance with applicable regional, national and local laws and regulations.

[cont...]

SAFETY DATA SHEET

Cyclohexylamine

Issued: 16/02/2022

Page 13

Disposal methods:

Reuse or recycle products wherever possible. Product residues and uncleaned empty containers should be packaged, sealed, labelled, and disposed of or recycled according to relevant national and local regulations. Product residues retained in emptied containers can be hazardous. For disposal within the EC, the appropriate code according to the European Waste List (EWL) should be used. It is among the tasks of the polluter to assign the waste-to-waste codes specific to industrial sectors and processes according to the European Waste List. The generation of waste should be minimised or avoided wherever possible. Incineration or landfill should only be considered when recycling is not feasible. Empty containers or liners may contain product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned through internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Waste class:

No information available.

14. TRANSPORT INFORMATION

UN number:

UN No. (ADR/RID):	2357
UN No. (IMDG):	2357
UN No. (ICAO):	2357
UN No. (ADN):	2357

UN proper shipping name:

Proper shipping name (ADR/RID):	CYCLOHEXYLAMINE
Proper shipping name (IMDG):	CYCLOHEXYLAMINE
Proper shipping name (ICAO):	CYCLOHEXYLAMINE
Proper shipping name (ADN):	CYCLOHEXYLAMINE

Transport hazard class(es):

ADR/RID class:	8
ADR/RID subsidiary risk:	3
ADR/RID classification code:	CF1
ADR/RID label:	8
IMDG class:	8
IMDG subsidiary risk:	3
ICAO class/division:	8
ICAO subsidiary risk:	3
ADN class:	8
ADN subsidiary risk:	3

[cont...]

SAFETY DATA SHEET

Cyclohexylamine

Issued: 16/02/2022

Page 14

Transport labels:



Packing group:

ADR/RID packing group: II
IMDG packing group: II
ICAO packing group: II
ADN packing group: II

Environmental hazards:

Environmentally hazardous substance/marine pollutant: No.

Special precautions for user:

EmS: F-E, S-D
ADR transport category: 2
Emergency Action Code: •2W
Hazard Identification Number (ADR/RID): 83
Tunnel restriction code: (D/E)

Transport in bulk according to Annex II of MARPOL and the IBC Code:

15. REGULATORY INFORMATION

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

National regulations: No information available.

EU legislation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Guidance: No information available.

Health and environmental listings: No information available.

Authorisations (Annex XIV Regulation 1907/2006): No information available.

Restrictions (Annex XVII Regulation 1907/2006): No information available.

Chemical safety assessment: A chemical safety assessment has been carried out.

[cont...]

SAFETY DATA SHEET

Cyclohexylamine

Issued: 16/02/2022

Page 15

Inventories:

EU - EINECS/ELINCS:	No information available.
Canada - DSL/NDSL:	No information available.
US – TSCA:	No information available.
US - TSCA 12(b) Export Notification:	No information available.
Australia – AICS:	No information available.
Japan – ENCS:	No information available.
Korea – KECI:	No information available.
China – IECSC:	No information available.
Philippines – PICCS:	No information available.
New Zealand – NZIOC:	No information available.
Taiwan – TCSI:	No information available.
South Korea:	No information available.

Note: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet:

EUH statement: CLP-specific Hazard statement
NIOSH: The National Institute for Occupational Safety and Health.
RRN: REACH Registration Number
ECHA: European Chemicals Agency
ATE: Acute Toxicity Estimate.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE: Acute Toxicity Estimate
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN: European Committee for Standardisation
DNEL: Derived No Effect Level.
C&L: Classification and Labelling
GHS: Globally Harmonized System.
CMR: Carcinogen, Mutagen, or Reproductive Toxicant
IMDG: International Maritime Dangerous Goods.
CSA: Chemical Safety Assessment
Kow: Octanol-water partition coefficient.
CSR: Chemical Safety Report
DNEL: Derived No Effect Level

[cont...]

SAFETY DATA SHEET

Cyclohexylamine

Issued: 16/02/2022

Page 16

LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).

DPD: Dangerous Preparations Directive 1999/45/EC

PBT: Persistent, Bioaccumulative and Toxic substance.

DSD: Dangerous Substances Directive 67/548/EEC

PNEC: Predicted No Effect Concentration.

DU: Downstream User

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.

vPvB: Very Persistent and Very Bioaccumulative.

ELINCS: European List of notified Chemical Substances

IARC: International Agency for Research on Cancer.

eSDS / ext.-SDS: Extended Safety Data Sheet (SDS with ES attached)

MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.

BCF: Bioconcentration Factor.

EC₅₀: 50% of maximal Effective Concentration.

Hazard statements in full:

H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H361f Suspected of damaging fertility.

Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.