

Syntor Fine Chemicals Ltd

Material Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY

1.1 Product identifier: Chlorocyclohexane
Synonyms: Monochlorocyclohexane; Cyclohexyl Chloride
Recommended uses: Intermediate in chemical manufacture
Uses advised against: No information available

1.3 Detail of supplier: Syntor Fine Chemicals Ltd
11 Boleyn Court
Manor Park
Runcorn
WA7 1SR

1.4 Emergency Telephone:
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Fax: +44 (0) 1928 579 734
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www.syntor.co.uk

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance:
Classification of substance according to CLP, 1272/2008/EC:

H226: Flammable liquid and vapour
H315: Causes skin irritation
H319: Causes serious eye irritation
H335: May cause respiratory irritation

2.2 Label element:



Signal word:

Warning

Hazard / Precautionary Statements:

H226: Flammable liquid and vapour
H315: Causes skin irritation
H319: Causes serious eye irritation
H335: May cause respiratory irritation
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

2.3 Other Hazards:
Results of PBT and vPvB assessment
PBT:
vPvB:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P405 Store locked up
P501 Dispose of contents/container in accordance with local/regional/national/international regulations
Not applicable
Not applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

Ingredient	CAS Number	EC Number	Concentration (% w/w)	Classification according to (EC) No 1272/2008 (CLP)
Chlorocyclohexane	542-18-7	208-806-6	~ 100 %	Flam Liq. 3: H226: Flammable liquid and vapour Skin Irrit. 2: H315: Causes skin irritation Eye Irrit. 2H: 319: Causes serious eye irritation STOT SE 3: H335: May cause respiratory irritation

Molecular formula: C₆H₁₁Cl
Molecular weight: 118.16

4. FIRST AID MEASURES

4.1 Description of first aid measures:

General information:

Instantly remove any clothing soiled by the product.
Remove breathing apparatus only after soiled clothing has been completely removed.
Supply fresh air. If required, provide artificial respiration. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance. Keep patient warm.
Consult doctor if symptoms persist.

Inhalation:

Skin contact:

Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.

Eye contact:

Rinse opened eye for several minutes under running water. Then consult doctor.

Swallowing:

Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical advice.

4.2 Most important symptoms and effects, both acute and delayed:

No further relevant information available.

4.3 Indication of immediate medical attention and special treatment needed: No further relevant information available.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media: Use carbon dioxide, sand, extinguishing powder or foam. Water may be ineffective but suitable extinguishing agents: may be used to cool exposed containers
For safety reasons unsuitable extinguishing media: No further relevant information available

5.2 Special hazards caused by the material, its products of combustion or flue gases: Can be released in case of fire. Carbon monoxide and carbon dioxide
Hydrogen chloride (HCl)

5.3 Precautions for fire fighters: Wear self-contained breathing apparatus. Wear full protective suit.

5.4 Further information: Use water spray to cool unopened containers

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.

6.2 Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Discharge into the environment must be avoided. Do not allow material to be released to the environment without proper governmental permits

6.3 Methods and materials for containment and cleaning up: Keep away from ignition sources. Ensure adequate ventilation. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections: Dispose of contaminated material according to local / national regulations.
See section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling: Avoid exposure - obtain special instructions before use. Keep containers tightly sealed.
Store in cool, dry place in tightly closed containers.
Ensure good ventilation/exhaustion at the workplace.
Open and handle container with care.

7.2 Conditions for safe storage, including any incompatibilities: Keep ignition sources away – Do not smoke.
Protect against electrostatic charges
Store in cool location. Store away from oxidizing agents.
Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Derived No Effect Level(DNEL): No information available

Predicted No Effect Concentration (PNEL): No information available

8.2 Exposure controls:

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Personal protective equipment:

General protective and hygienic measures: The usual precautionary measures should be adhered to in handling the chemicals.
Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.

Breathing equipment: Use breathing protection with high concentrations.

Protection of hands: Protective gloves

Eye protection: Tightly sealed safety glasses / full face protection

Body protection: Protective work clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form: Colourless to pale yellow liquid

b) Odour: Not determined

c) Odour Threshold: No information available

d) pH: No information available

e) Melting point/range: -44°C

f) Initial boiling point and boiling range:	143 °C
g) Flash point:	29°C
h) Flammability:	No information available
j) Upper/lower flammability or explosive limits:	No information available
k) Vapour pressure:	No information available
l) Vapour density:	No information available
m) Relative density:	1.0 g/cm ³
n) Water solubility:	Soluble
o) Partition coefficient:	No information available
p) Autoignition temperature:	No information available
q) Decomposition temperature:	No information available
r) Viscosity:	No information available
s) Explosive properties:	No information available
t) Oxidizing properties:	No information available
9.2 Other information	No information available

10. STABILITY AND REACTIVITY

10.1 Reactivity:	No further relevant information available
10.2 Chemical stability:	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions:	No dangerous reactions known
10.4 Conditions to avoid:	Incompatible materials
10.5 Incompatible materials:	Oxidizing agent
10.6 Hazardous decomposition products:	Carbon dioxide, carbon monoxide, Hydrogen chloride (HCl)

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity::	Inhalation: LC50/2H: 31000 mg/m ³ /2H (mus) Inhalation: Lo50/2H: 40000 mg/m ³ /2H (rat)
Primary irritant effect::	
Effect on the skin:	Irritant effect
Effect on the eye:	Irritant effect
If swallowed:	May be harmful if swallowed
Sensitisation:	No sensitising effect known.
Additional toxicological information	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. No classification data or carcinogenic properties of this material is available

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
12.5 Results of PBT and vPvB assessment:	No further relevant information available
12.6 Other adverse effects	No further relevant information available
Additional ecological information:	
General notes:	Water hazard class 1. Slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Do not allow material to be released to the environment without proper governmental permits.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment method

Substance disposal:	Handover to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal. Arrange disposal as special waste, by licensed disposal company.
Waste packaging:	Dispose of as unused product.

14. TRANSPORT INFORMATION

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)



ADR/RID-GGVS/E Class: 3 (F1) Flammable liquid
Kemler Number: 30
UN-Number: 1993
Packaging group: III
Label: 3
Designation of goods: 1993 FLAMMABLE LIQUID, N.O.S. (not viscous) (Chlorocyclohexane)

Maritime transport IMDG/GGVSea:



IMDG/GGVSea Class: 3
UN-Number: 1993
Label: 3
Packaging group: III
Correct technical name: FLAMMABLELIQUID, N.O.S. (Chlorocyclohexane)

Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class: 3
UN/ID Number: 1993
Label: 3
Packaging group: III
Correct technical name: FLAMMABLE LIQUID, N.O.S. (Chlorocyclohexane)

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

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

No data available

15.2 Chemical Safety Assessment: A Chemical Safety Assessment has not been carried out for this substance.

Additional information: For use only by technically qualified individuals

16. OTHER INFORMATION

Revision Summary: The issue replaces revision 04. The safety data sheet has been updated to align the hazard and precautionary phrases with the established REACH registration.

The above Information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Syntor Fine Chemicals Ltd, shall not be held liable for any damage resulting from handling or from contact with the above product.

Disclaimer: For R&D use only. Not for drug, household or other uses.

We welcome any additional information about our products that customers have obtained by personal experience.



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