Safety Data Sheet

Release 1.0

 Revision
 09/28/2023

 Date of issue
 09/28/2023



page 1 of 5

1 Identification of the substance

1.1 Product identifier

Identification of the

substance

Cyclohexyl chloride

Additional identification

Chlorocyclohexane

Cataloge Number

FC57254

REACH No.

A registration number is not available for this substance as the substance or its uses are exempted from registration or the annual tonnage does not require a

registration.

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

Identified uses

Restriction on use not for food or drug use, for laboratory use only

1.3 Details of the supplier of the safty data sheet

Company Biosynth Ltd

8&9 Old Station Business Park

COMPTON RG20 6NE

Phone +44 1635 578444

Mail customerservice@biosynth.com

1.4 Emergency telephone number

Phone 24hr/7days: +44 118 338 8269

2 Hazards identification

2.1 Classification of the substance or mixture

Physical Hazards

Flammable liquid (Category 3), H226

Health Hazards

Skin irritation (Category 2), H315 Eye irritation (Category 2), H319

Specific target organ toxicity, single exposure (Category 3), H335

Enviromental Hazards

not classified

2.2 Label elements

Regulatory List

EC1272/08 Regulation (EC) 1272/2008 (GHS/CLP)

Symbol

GHS02 flame

Pictogram



GHS07 exclamation mark

Pictogram



Signal Word

Warning Warning

Hazard Statement

H226 Flammable liquid and vapour.

Safety Data Sheet FC57254 page 2 of 5

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary Statement

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

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

P304+P340 IF INHALED: Remove casualty to fresh air and keepat rest in a position comfortable

for breathing.

P305+P351+P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Remove contact lenses, if possible.

2.3 Other hazards

Caution! To the best of our knowledge the toxicological properties of this material have not been thoroughly investigated.

3 Composition/information on ingredients

Substance related information

Substance name Cyclohexyl chloride Synonyms Chlorocyclohexane

Cas No. [542-18-7]Formula $C_6H_{11}CI$

4 First aid measures

4.1 Description of first aid measures

First Aid: Eye

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

First Aid: Skin

Wash immediately with plenty of water and soap for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothes before reuse. Call a physician.

First Aid: Ingestion

Wash out mouth with water provided person is conscious. Call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Hints for Physician: Symptoms

See Section 11 for additional information on health hazards

4.3 Indication of any immediate medical attention and special treatment needed

First Aid: Inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

Hints for Physician: Treatment

Treat symptomatically.

5 Firefighting measures

5.1 Extinguishing Media

Suitable

foam, dry extinguishing powder, carbon dioxide (CO2), water spray jet

5.2 Special hazards arising from the substance or mixturet

Wear a self-contained breathing apparatus and chemical protective clothing.

Hazards During Fire-Fighting

toxic fumes

5.3 Fire-Fighting/Further Advice

Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

6 Accidental release measures

6.1 Personal Precautions, protective equipment and emergency procedures

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation.

Safety Data Sheet FC57254 page 3 of 5

6.2 Environmental Precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure all waste water is collected and treated via a waste water treatment plant.

6.3 Methods and material for containment and cleaning up

not available

6.4 Further Accidental Release Measures

Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly. Ventilate affected area.

7 Handling and storage

7.1 Precautions for safe handling

Handling advice

Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature

store at 10°C - 25°C

Storage condition

close container well

Storage Requirements

Keep away from heat, sparks and flame. Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances.

7.3 Specific end use(s)

Specific end use(s)

No Specific end use

8 Exposure controles/personal protection

8.1 Exposure limit values

Does not contain any substances with occupational exposure limits.

8.2 Exposure controles

Industrial Hygiene

Mechanical exhaust required. Safety shower and eye shower.

8.3 Personal Protective Equipment

Respiratory Protection

Wear NIOSH/MSHA or European Standard EN 149 approved respirator.

Hand Protection

Wear compatible chemical-resistant gloves to prevent skin exposure.

Eye Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA.

Body Protection

Wear compatible chemical-resistant gloves and clothing to prevent skin exposure.

Advice on Safe Handling

Wash contaminated clothing before reuse. Wear appropriate protective clothing to prevent exposure.

9 Physical and chemical properties

9.1 Information on basic Physical and chemical color properties

Form

clear liquid

Phase Transition Solid/Liquid

-44 °C

Phase Transition Liquid/Gas

142 °C

Density

1 g/cm3, 20 °C

Flash Point

28.9 °C

Safety Data Sheet FC57254 page 4 of 5

9.2 Other information

Molar Mass 118.6 g/mol

10 Stability and reactivity

10.1 Reactivity

No Data Available

10.2 Chemical stability

No Data Available

10.3 Possibility of hazardous reaction

No Data Available

10.4 Conditions to Avoid (SDS)

spark, open flames, electrostatic discharge, incompatible materials

10.5 Incompatible materials

strong oxidizers

10.6 Hazardous decomposition products

carbon dioxide (CO2), hydrogen chloride (HCI), carbon monoxide

11 Toxicological information

11.1 Information on toxicological effects

Other Relevant Toxicity Information

We are not aware of any toxicology data.

12 Ecological Information

12.1 Toxicity

Acute toxicity versus Fishing	Test Type	Species	Method	Exposure Time	Value in standard unit mg/l
	No data available				
Acute toxicity in aquatic plants	Test Type	Species	Method	Exposure Time	Value in standard unit mg/l
	No data available				
Acute toxicity versus Daphnia and others aquatic invertebrates	Test Type	Species	Method	Exposure Time	Value in standard unit mg/l
	No data available				

12.2 Persistence and degradability

Remarks: no data available 12.3 Bioaccumulative potential

Remarks: no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

13 Disposal considerations

Advice on Disposal and Packaging

Advice on Disposal

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and Exhaust air. Dispose of waste according to laws applicable.

Advice on Packaging

not available

14 Transport information

Safety Data Sheet FC57254 page 5 of 5

	Road Transport(ADR/GGVS)	Air Transport(IATA)
14.1 UN number	1993	1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Cyclohexyl chloride)	FLAMMABLE LIQUID, N.O.S. (Cyclohexyl chloride)
14.3 Transport hazard class(es)	3	3
14.4 Packing group	III	III
14.5 Environmental hazard class (es)	Not Dangerous Goods	Not Dangerous Goods
14.6 Special precautions for user	Transport in bulk or in tanks: see long text.	Not applicable
14.7 Transport in bulk according to Annex 11 of MARPOL and the IBC code	Not applicable	Not applicable

15 Other regulations

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

Component	Anney XIV - Substances	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Cyclohexyl chloride			

Regulatory List

AREC, DSL, EINECS, ENCS, IECSC, NZIOC, PICCS, TCSI, TSCA

15.2 Chemical safty assessment

No chemical safety assessment has been carried out.

16 Additional information

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