

Syntor Fine Chemicals Ltd

Material Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY

1.1 Product identifier:	6-Chloro-1-hexanol	1.4 Emergency Telephone:
Synonyms:	1-Chloro-6-hydroxyhexane	+44 (0) 7720 149 777
Recommended uses:	Intermediate in chemical manufacture	Fax: +44 (0) 1928 579 734
Uses advised against:	No information available	e-mail: colin.lee@syntor.co.uk
1.3 Detail of supplier:	Syntor Fine Chemicals Ltd 11 Boleyn Court Manor Park Runcorn WA7 1SR	www.syntor.co.uk

2. HAZARDS IDENTIFICATION

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

H312 Harmful in contact with skin
H332 Harmful if inhaled
H315 Causes skin irritation
H319 Causes serious eye irritation

2.2 Label element:



Signal word:

Warning

Hazard / Precautionary Statements:

H312 Harmful in contact with skin
H332 Harmful if inhaled
H315 Causes skin irritation
H319 Causes serious eye irritation
P261 Avoid breathing dust/fume/gas/mist/vapour/spray
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P362 Take off contaminated clothing and wash before reuse.
P501 Dispose of 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

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

Ingredient	CAS Number	EC Number	Concentration (w/w)	Classification according to (EC) No 1272/2008 (CLP)
6-Chloro-1-hexanol	2009-83-8	217-925-2	~ 100 %	Acute Tox. 4 H312 Harmful in contact with skin Acute Tox. 4 H332 Harmful if inhaled Skin Irrit. 2 H315 Causes skin irritation Eye Irrit. 2 H319 Causes serious eye irritation

Molecular formula: C₆H₁₃ClO
Molecular weight: 136.62

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.

Inhalation: 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.

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:
Suitable extinguishing agents: Use carbon dioxide, sand or extinguishing powder or water jet. For larger fire use water jet or alcohol resistant foam.

For safety reasons unsuitable extinguishing media: None

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: Prevent further / contain spillage if safe to do so. Adsorb with suitable inert chemical spill aid, sand, sawdust, etc. Collect up spillage and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections: 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. Store in cool location. Store away from oxidizing agents. Store away from strong acids. Keep container tightly sealed.

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 light-yellow liquid

b) Odour: Not determined

c) Odour Threshold: No information available

d) pH: No information available

e) Melting point/range: No information available

f) Boiling range:	107 – 109°C (11mm Hg)
g) Flash point:	98°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:	1.024 g/ml
n) Water solubility:	No information available
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 relevant information available

10. STABILITY AND REACTIVITY

10.1 Reactivity:	No decomposition if used and stored according to specifications.
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, Strong acids
10.6 Hazardous decomposition products:	Carbon dioxide, carbon monoxide, Hydrogen Chloride (HCl)

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute toxicity:	
Primary irritant effect:	
Effect on the skin:	Irritant effect on skin and mucous membranes.
Effect on the eye:	Strong irritant effect
If swallowed:	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 e GGVS/GGVE (cross-border/domestic)	
ADR/RID-GGVS/E Class:	Not classified

Maritime transport IMDG/GGVSea:
IMDG/GGVSea Class: Not classified

Air transport ICAO-TI and IATA-DGR:
ICAO/IATA Class: Not classified

15. REGULATORY INFORMATION

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

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

Additional information: For use by technically qualified individuals

15.2 Chemical Safety Assessment: No data available

16. OTHER INFORMATION

Revision Summary: The issue replaces revision 002. The MSDS has been updated to align the H&P phrases in accordance with the REACH registration of the substance.

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.

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.

