

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: Chloropentane for Gas Doping, OEA

Catalogue no: R90010

SDS reference no: R90010

Brand: OEA Labs

EC index no(s):

REACH no: The annual tonnage does not require registration.

CAS no(s): CH3.(CH2)4.Cl[543-59-9]

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

Identified uses: Elemental analysis scientific instrumentation. Not for pharmaceutical, domestic or other uses.

1.3 Details of the supplier of the safety data sheet

Company name: OEA Laboratories Limited
Unit C2 Florence Road Business Park
Kelly Bray, Callington, Cornwall
PL17 8EX, United Kingdom

Telephone: +44 (0)1579 384174

Fax: +44 (0)1579 384174

Email: sales@oealabs.com

1.4 Emergency telephone number

Telephone: +44 (0)1579 384174, +44 (0) 1579 350212, +44 (0) 7811 102906

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture according to Regulation (EC) No 1272/2008

Flammable liquids (Category 2), H225

Accute toxicity, oral (Category 5), H302

Acute toxicity, dermal (Category 4), H312

Acute toxicity, inhalation (Category 4), H332

2.2 Labelling elements according to Regulation (EC) No 1272/2008

Pictogram(s):



GHS02



GHS07

GHS07

Signal word: Danger

Hazard statement(s):

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

Precautionary statement(s):

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

P262 Do not get in eyes, on skin, or on clothing.

P281 Use personal protective equipment as required.

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

Restricted to professional users.

2.2 Other hazards

None

SECTION 3. Composition/information of ingredients

3.1 Substances

Synonyms: 1-Chloropentane, Amyl Chloride, Pentyl Chloride

Formula: CH3.(CH2)4.Cl

Molecular weight: 106.59 g/mol

Components:

1-Chloropentane Concentration: ~100%

CAS No 543-59-9, EC No 208-846-4, Index No 602-022-00-1, H225, Flammable liquids, Category 2; H302, Accute toxicity, oral, Category 5; H312, Acute toxicity, dermal, Category 4; H332, Acute toxicity, inhalation, Category 4.

SECTION 4. First aid measures

4.1 Description of first aid measures

General advice:

Consult a physician. Show this safety data sheet to the doctor in attendance.

If Inhaled:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact:

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact:

Flush eyes with water as a precaution.

If swallowed:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2

Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3

Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Hydrogen chloride gas.

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end uses

No data available.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters:

1-Chloropentane

CAS No 543-59-9, TWA, No data available, ;

8.2 Exposure controls

Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment:

Eye/face protection:

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body protection:

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the 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 (US) or CEN (EU).

Environmental protection:

No data available.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	Liquid
Colour:	Clear
Odour:	No data available.
Odour threshold:	No data available.
pH:	No data available.
Melting point:	No data available.
Boiling point:	107°C
Flash point:	12°C
Flammability solid/gas:	No data available.
Upper/lower flammability or explosive limits:	No data available.
Water solubility:	No data available.
Autoignition temp:	No data available.
Decomp temperature:	No data available.
Explosive properties:	No data available.
Oxidising properties:	No data available.

9.2 Other safety information

No data available.

SECTION 10. Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

No data available.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Strong oxidizing agents, Strong bases.

10.6 Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

No data available.

Skin corrosion/irritation:

No data available.

Serious eye damage/eye irritation:

No data available.

Respiratory or skin sensitisation:

No data available.

Germ cell mutagenicity:

No data available.

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity:

No data available.

Specific target organ toxicity - single exposure:

No data available.

Specific target organ toxicity - repeated exposure:

No data available.

Aspiration hazard:

No data available.

Potential health effects - inhalation:

Harmful if inhaled. May cause respiratory tract irritation.

Potential health effects - ingestion:

Harmful if swallowed.

Potential health effects - skin:

Harmful if absorbed through skin. May cause skin irritation.

Potential health effects - eyes:

May cause eye irritation.

Signs and symptoms of exposure:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional information:

RTECS: Not available.

SECTION 12. Ecological information

12.1 Toxicity

Toxicity to fish: No data available.

Toxicity to daphnia and other aquatic invertebrates: No data available.

Toxicity to algae: No data available.

Toxicity to bacteria: No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

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.

SECTION 13. Disposal considerations

13.1 Waste treatment methods


Product:

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging:

Dispose of as unused product.

SECTION 14. Transport information

14.1 UN number		
ADR/RID/IATA/IMDG:	UN1107	
14.2 UN proper shipping name		
ADR/RID/IATA/IMDG:	AMYL CHLORIDE	
14.3 Transport hazard class(es)		
ADR/RID/IATA/IMDG:	3	
14.4 Packaging group		
ADR/RID/IATA/IMDG:	II	
14.5 Environmental hazards		
ADR/RID/IATA/IMDG:		
14.6 Special precautions for user		
14.7 Shipping quantities		
ADR LQ maximum:	1L	
ADR EQ code:	E2	
ADR EQ IP/pkg:	30gm pkg to 500ml	
IATA LQ PInstruction:	Y341	
IATA LQ IP/pkg:	0.5L (glass, plastic, metal) to 1L	
IATA EQ code:	E2	
IATA EQ IP/pkg:	30gm pkg to 500ml	
De minimus:	1ml Accepted	

SECTION 15. Regulatory information

This safety data sheet 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
No data available.

SECTION 16 Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used 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. OEA Laboratories Limited shall not be held liable for any damage resulting from the handling or contact with the above product. See www.oelabs.com for terms and conditions of sale.