Chloramphenicol

CLA01
CLA02

SECTION 1 Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product identifier

Identification of the product : Raw Material
Product code : CLA01, CLA02
Trade name : Chloramphenicol
CAS number : 56-75-7

Warning

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

Use : For research purposes only

1.3. Details of the supplier of the safety data sheet

Company identification : **Formedium Ltd.**
King's Lynn, England, PE31 6DJ
Tel: +44(0)1485 609069
Web: www.Formedium.com
E-mail: info@formedium.com

1.4. Emergency telephone number

Emergency phone nr : Tel: +44(0)1485 609069 (local time : 9.00 to 17.00)
NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours)

SECTION 2 Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008

Physical hazards Not classified
Health hazards Carcinogenicity (Category 2), H351
Environmental hazards Not classified

2.2. Label elements

Labelling according to Regulation (EC) 1272/2008

Signal word: **Warning**

Hazard statement(s): H351 Suspected of causing cancer.

Precautionary statement(s): P280 Wear protective gloves / protective clothing / eye protection / face protection.

2.3. Other hazards

This substance / mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 3 Composition/Information on Ingredients

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component

Substance name	contents	CAS No	EC No	Classification
Chloramphenicol	<=100 %	56-75-7	200-287-4	Carc. 2; H351

Formula: C11H12Cl2N2O5
Molecular Weight: 323.13 g/mol

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4 First Aid Measures

4.1. Description of first aid measures

General information: Consult a physician if you feel unwell. Show this data sheet to the doctor in attendance.
Inhalation: If breathed in, remove person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Consult a physician.
Skin contact: Wash off with soap and plenty of water. Consult a physician.
Eye contact: Flush eyes with water as a precaution.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5 Fire-fighting Measures

5.1. Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam, Carbon Dioxide (CO2), Dry powder, Water spray

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for fire-fighters

Wear positive-pressure self contained breathing apparatus (SCBA) and appropriate protective clothing.
Firefighters clothing conforming to European standard En489 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents. Use protective equipment appropriate for surrounding materials.

SECTION 6 Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in section 8 of this safety data sheet. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Avoid discharge into drains or watercourses.

6.3. Methods and material for containment and cleaning up

Wear protective clothing as described in section 8 of this safety data sheet. Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into suitable waste disposal containers and seal securely. Clear up spills immediately and dispose of waste safely. Flush contaminated areas with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see section 13.

6.4. Reference to other sections

For personal protection, see Section 8. For waste disposal, see section 13.

SECTION 7 Handling and Storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate ventilation at places where dust is formed. For precautions see Section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Store in a cool place.
Store dry at room temperature.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8 Exposure Controls / Personal Protection

8.1. Control parameters

Contains no substances with occupational exposure limit values.

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 the workday.

Eye / face protection: Tight fitting safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand 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.

Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min

Body protection: Impervious clothing, 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). Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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

SECTION 9 Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

a)	Appearance	Form: crystalline
b)	Colour	Light yellow
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	149 °C
f)	Initial boiling point and range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Solubility	practically insoluble
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2. Other safety information

Solubility in other solvents : Ethanol

SECTION 10 Stability and Reactivity

10.1. Reactivity
No data available
10.2. Chemical stability
Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions
No data available
10.4. Conditions to avoid
No data available
10.5. Incompatible materials
Oxidizing agents, Acids. Acid chlorides. Acid anhydrides.
10.6. Hazardous decomposition products
Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas.
Other decomposition products – No data available.
In the event of fire: see Section 5

SECTION 11 Toxicological Information

11.1. Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 2,500 mg/kg.
LD50 Intraperitoneal – Rat – 1,811 mg/kg
LD50 Intraperitoneal – Mouse – 1,100 mg/kg
Skin corrosion/irritation
No data available.

Serious eye damage/eye irritation
No data available.

Respiratory or skin sensitisation
Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Germ cell mutagenicity
Laboratory experiments have shown mutagenic effects.
Rat – Liver, DNA damage
Mouse – Cytogenetic analysis
Carcinogenicity
This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP or EPA classification.
Suspected human carcinogens

IARC 2A – Group 2A: Probably carcinogenic to humans (Chloramphenicol).

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.

Additional Information
RTECS: AB6825000
Nausea, Headache, Vomiting.
To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.
Liver – Irregularities – Based on Human Evidence

SECTION 11 Toxicological Information (Continued)

11.2. Additional Information

Endocrine disrupting properties : The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12 Ecological Information

12.1. Toxicity

Toxicity to daphnia and other aquatic invertebrates — EC50 – Daphnia magna (Water flea) – 345 mg/l – 48h

12.2. Persistence and degradability

The degradability of this product is not known.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance / mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Other adverse effects

No data available

12.7. Endocrine disrupting properties

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 13 Disposal Considerations

13.1. Waste treatment methods

Product : Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator with an afterburner or scrubber.
Waste material must be disposed of in accordance with the Directive on waste 2008/98/E as well as other national and local regulations. Leave chemical in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Contaminated packaging : Dispose of as unused product

SECTION 14 Transport Information

14.1. UN Number

ADR/RID: - INDG: - IATA:-

14.2. UNProper shipping name

ADR/RID: -
IMDG: -
IATA: -

14.3. Transport hazard class(es)

ADR/RID:- IMGD: - IATA:-

14.4. Packaging group

ADR/RID.- IMDG: - IATA: -

14.5. Environmental hazards

ADR/RID. - IMDG Marine pollutant: - IATA: -

14.6. Special precautions for user

Not applicable.

14.7. Bulk transport - annex II Marpol 73/78 - IBC

SECTION 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. 2015/830

15.2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16 Other Information

Full text of H-Statements referred to under sections 2 and 3.

H351 Suspected of causing cancer.

Further information: 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. Formedium Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

Revision: Complete SDS revision.

End of document