Chloramphenicol Solution

1. Identification

· Product Name: Chloramphenicol Solution
Cat No.: ML003-02
· Recommended use of chemical and restrictions on use: Use only laboratory purpose, do not use manufacturing medicine, home and other purpose.
· Details of Supplier
Company: Welgene Co., Ltd.,
Address: 693, Namcheon-ro, Namcheon-myeon, Gyeongsan-si, Gyeongsangbuk-do, South Korea
Telephone: +82 53-811-7081
· Emergency Phone Number: +82 53-819-7040

2. Hazard Identification

· Classification of the substance or mixture:
Germ cell mutagenicity (Category 1B)
Carcinogenicity (Category 1B)
Reproductive toxicity (Category 2)
Specific target organ toxicity-repeated exposure (Category 1)
· GHS label elements, including precautionary statements :
Pictogram

Signal word: Danger
Hazard Statement(s)
H340 May cause genetic defects
H350 May cause cancer
H361 Suspected of damaging fertility or the unborn child
H372 Causes damage to organs through prolonged or repeated exposure
Precautionary statement(s)
Precaution
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P281 Use personal protective equipment as required.
Response
P308+P313 IF exposed or concerned: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
Storage
P405 Store locked up.
Disposal
P501 Dispose of contents/container to allowed special waste collection point.
· Other hazards which do not result in classification
Health: 2
Flammability: 0
Reactivity: 0

3. Composition/Information on Ingredients

· Mixture: Chloramphenicol Solution

Component	Synonym	CAS No.	Concentration range
Chloramphenicol	D-(−)-threo-2,2-Dichloro-N-[β-hydroxy-α-(hydroxymethyl)-β-(4-nitrophenyl) ethyl]acetamide	56-75-7	1 %
Water	-	7732-18-5	99 %

4. First-aid measures

· Accident caused by contact with eyes: Immediately obtain medical attention. Rinse immediately with plenty of fresh water at least 20 minutes.
· Accident caused by skin contact: Immediately obtain medical attention. Take off all contaminated clothing and shoes immediately, and isolate a contaminated area. Rinse immediately with plenty of fresh water at least 20 minutes. If contact skin slightly, prevent spread of contamination part.
· Accident caused by inhalation: Remove victim to fresh air. If exposed or concerned, get medical advice/attention.
· Accident caused by ingestion: Do not give anything by mouth to an unconscious person. If exposed or concerned, get medical advice/attention.
· Indication of immediate medical attention and special treatment needed: Give material information to medical personnel and carry out protective measure.

5. Fire-fighting Measures

· Suitable extinguishing media: Use water mist, alcohol-resistant foam, dry chemicals or CO_2. Extinguishment by smothering, use dry sand or soil.
· Specific hazards arising from the chemical: May cause stimulated and poisonous gas by pyrolysis or contustion. May burst container, if heated. It is not ignite easily but some could be burned. Material(nonflammability) is not burned, but may cause combustible/toxic fume by decomposed, if heating.
· Special protective equipment and precautions for fire fighters: Rescuer must use suitable protective equipment. In case fire, keep a safe distance and fight fire. Be cautious about transported of molten material. Be cautious about transported of high temperature material. Dig a ditch to store the water of fire-fighting, and be careful not to scatter it. Remove container from fire-fighting site, if no risk. In case of tank fire, cool tank off with plenty of water, after extinguishing fire. In case of tank fire, if pressure relief device let out a high-pitched sound or color of tank is changed, immediately move back. In case of tank on fire, move back from tank wrapped in flames.

6. Accidental release measures

· Personal precautions, protective equipment and emergency procedures: Mop up spilt material and take precautions. Isolate contaminated area. Do not entry without entry reason or personal protective equipment. Eliminate all ignition sources. Stop a leak, if not dangerous. Avoid contact with leaked material from damaged container, without suitable protective clothes. Stop the spread by plastic seat. Give attention to materials and

conditions to avoid.
- Environmental precautions: Prevent to flow material in waterway, drain, basement and closed space. Do not discharge into the environment.
- Methods and materials for containment and cleaning up: Absorb material with inactive absorbent and dispose it as hazardous waste. Absorb liquid and wash contamination area with detergent and water.

7. Handling and storage
- Precautions for safe handling: Comply with MSDS/Label precaution because residue is left behind after container was empty. Use material with attention to handling/storage. Open container carefully. Be careful avoided material and condition. Avoid breathing dust/fume/gas/mist/vapours/ spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.
- Conditions for safe storage, including any incompatibilities: Store in a well-ventilated place. Keep container tightly closed.

8. Exposure controls/personal protection
- Exposure control parameters: No data available
- Appropriate engineering controls: Isolate work place. Use local ventilation or Do engineering control to control air pollution level under leakage limit. Install wash-facilities and safe shower booth.
- Individual protection measures, such as personal protective equipment(PPE)
  Respiratory protection: In place where need an air purification mask under risk level, use mult-purpose full face mask(US) or mask cartridge like ABNK(EN 14387) type as alternative to control engineering. If canister mask is the only measure, use full-face airline respirator. Use canister mask approved by the Mini Safety and Health Administration and NIOSH(US) or C EN(EU).
  Eye protection: Wear protective eyewear(face shield, safety glasses) approved by NIOSH(US) or EN166(EU) under government regulation.
  Hands protection: Wear gloves. Check gloves before use. Need information for use(IFU) to prevent to contact with skin (not to touch glove's external) in case of use . Dispose contaminated gloves after use according to regulation and GLP(Good laboratory practice). Wash and dry hands.
  Body protection: Wear impermeable clothing. Use the suitable protective clothing according to concentration & amount of dangerous substance.

9. Physical and chemical properties
- Appearance: Liquid
- Odour: No data available
- Odour threshold: No data available
- pH: No data available
- Melting point/Freezing point: No data available
- Initial boiling point and Boiling range: No data available
- Flash point: No data available
- Evaporation rate: No data available
- Flammability: No data available
- Upper/lower flammability or Explosive limits: No data available
- Vapour pressure: No data available
- Solubility(ies): No data available
- Vapour density: No data available
- Relative density: No data available
- Partition coefficient;n-octanol/water: No data available
- Auto-ignition temperature: No data available
- Decomposition temperature: No data available
- Viscosity: No data available
- Molecular weight: No data available

10. Stability and Reactivity
- Chemical stability: It's stable under recommended condition.
- Possibility of hazardous reactions: May cause stimulated and poisonous gas by pyrolysis or contustion. May burst container, if heated. It is not ignite easily but some could be burned. Material(nonflammability) is not burned, but May cause combustible/toxic fume by decomposed, if heating.
- Conditions to avoid: Source of ignition like heat, spark and flame.
- Incompatible materials: Combustibles and reducing agent.
- Hazardous decomposition products: May cause pungent poisonous gas by pyrolysis or combustion.

11. Toxicological information
- Information on the likely routes of exposure: No data available
- Information on toxicological(health) effects
  Acute toxicity
  Oral: LD50 2500 mg/kg Rat
  Dermal: No data available
  Inhalation: No data available
  Skin corrosion/irritation: No data available
  Serious eye damage/irritation: No data available
  Respiratory sensitization: No data available
  Skin sensitization: No data available
  Carcinogenicity
  IARC: Group 2A
  NTP: R
  Germ cell mutagenicity
  Somatic cell in vitro chromosome aberration test: Positive
  Dominant lethal assay: Negative
  Reproductive cell chromosome aberration test: Positive
  Reproductive toxicity: It was reported malformation contained hydrocephalus, palatoschisis on teratogenic test of rat
  STOST-single exposure: No data available
  STOST-repeated exposure: It was reported aplastic anemia, rash, alimentary canal suffer, nerve disorder, retinal abnormality, myocardiopathy, and left heart failure on human.
  Aspiration hazard: No data available

12. Ecological information
- Toxicity
  Fish: LC50 10 mg/L 24 hr
  Crustacean: EC50 345 mg/L 48 hr
  Alga: EC50 250 mg/L 48 hr
- Persistence and degradability: No data available
- Bioaccumulative potential: No data available
- Mobility in soil: No data available
- Other adverse effects: No data available

13. Disposal considerations
- Disposal method: Disposal of material and its container according to the disposal regulation.

14. Transport information
- UN number
  ADR/RID: -

IMDG: -
IATA: -

· UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

· Transport hazard class(es)
ADR/RID: -
IMDG: -
IATA: -

· Packing group(if applicable)
ADR/RID: -
IMDG: -
IATA: -

· Environmental hazards
ADR/RID: no
IMDG Marine pollutant: no
IATA: no

· Special precautions for user: No data available

15. Regulatory information

· Safety, health and environmental regulations specific for the product:
Acrylamide (CAS No. : 79-06-1)
Candidate List of Substances of very high concern for Authorisation
Carcinogenic (article 57a)
ED/68/2009

16. Other information

· References: (1) ICSC (2) HSDB (3) EHC 49 (1985) (4) ACGIH (7th; 2005) (5) IARC (2006) (6) NTP (2005) (7) EU REACH (2006) (8) CERI·NITE No.35 (2004) (9) EU-RAR (2002)

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· Date of last revision : 2020. 03. 04

· Remark:
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Abbreviation:
CAS: Chemical Abstracts Service
EINECS: European Inventory of Existing Commercial Substances
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
IMDG: International Maritime Dangerous Goods
IATA: International Air Transport Association