

**Rifampicin Solution**

**1. Identification**

- Product Name: Rifampicin Solution  
Cat No.: ML003-05
- 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:  
Acute toxicity, Oral (Category 4)  
Skin corrosion/irritation (Category 2)  
Serious eye damage/eye irritation (Category 2)  
Specific target organ toxicity-single exposure (Category 3)
- GHS label elements, including precautionary statements :  
Pictogram



Signal word: Warning

Hazard Statement(s)

- H302 Harmful if swallowed
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation

Precautionary statement(s)

Precaution

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

- P302+P352 IF ON SKIN: Wash with plenty of water and soap.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P321 Specific treatment see reference to supplemental first aid instruction on this label.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse.

Storage

- P403+P233 Store in a well-ventilated place. Keep

container tightly closed.

P405 Store locked up.

Disposal

P501 Dispose of contents/container to allowed special waste collection point.

- Other hazards which do not result in classification: none

**3. Composition/Information on Ingredients**

- Mixture: Rifampicin Solution

Component	Synonym	CAS No.	Concentration range
Acrylamide	3-(4-Methylpiperazinyl)minomethyl)rifamycin SV	13292-46-1	2.5 %
Water	-	7732-18-5	97.5 %

**4. First-aid measures**

- Accident caused by contact with eyes: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If signs/symptoms(rash, itchy etc.), immediately obtain medical attention.
- Accident caused by skin contact: If the hot material, immerse in plenty cool water or wash with water. Immediately obtain medical attention. Take off all contaminated clothing and shoes immediately, and isolate a contaminated area. If contact material, rinse immediately with plenty of fresh water at least 20 minutes. If contact skin slightly, prevent spread of contamination part. If signs/symptoms(rash, itchy etc.), immediately obtain medical attention. Wash contaminated clothing before reuse.
- Accident caused by inhalation: If person is not breathing, give artificial respiration. If exposed to dust or fume, remove it by fresh air and if experiencing cough etc other symptoms, call a POISON CENTER or doctor/physician.
- Accident caused by ingestion: Immediately obtain medical 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<sub>2</sub>. Extinguishment by smothering, use dry sand or soil.
- Specific hazards arising from the chemical: May cause stimulated and poisonous gas by pyrolysis or contusion. 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. 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. 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. Avoid breathing dust/fume/gas/mist/vapours/spray.
- Environmental precautions: Prevent to flow material in waterway, drain, basement and closed space.
- 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. Open container carefully. Avoid contact skin at long time. Use material with attention to handling/storage. 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 multi-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 1.570 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 3  
Germ cell mutagenicity: No data available  
Reproductive toxicity: No data available  
STOST-single exposure: May cause respiratory irritation.  
STOST-repeated exposure: No data available  
Aspiration hazard: No data available

## 12. Ecological information

- Toxicity: No data available
- 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: -1
- 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)
- Date of preparation: 2011. 07. 01
- 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