ELK Biotechnology

# SAFETYDATA SHEETS

According to the UN GHS revision 9

Version: 1.0
Creation Date: Mar. 18, 2025
Revision Date: Mar. 18, 2025

## 1. Identification

### 1.1 GHS Product identifier

**Product name** Human ICOSLG(Inducible T-Cell Co Stimulator Ligand) ELISA Kit

### 1.2 Other means of identification

**Product number** -ELK12002
**Other names** -

### 1.3 Recommended use of the chemical and restrictions on use

**Identified uses** For research use only.
**Uses advised against** no data available

### 1.4 Supplier's details

**Company** ELK (Wuhan) BiotechnologyCO.,Ltd.
**Address** Building 4, Tumor Immunotherapy Industrial Base, No. 18, Gaoke Second Road, East Lake High-tech Development Zone, Wuhan City, Hubei Province, China
**Telephone** +86-27-59760950

### 1.5 Emergency phone number

**Emergency phone number** +86-18986165840
**Service hours** Monday to Friday, 9 am-5 pm (Standard time zone: UTC/GMT+8 hours).

## 2. Hazard identification

### 2.1 Classification of the substance or mixture

Not classified.

### 2.2 GHS label elements, including precautionary statements

**Hazard pictogram(s)** No symbol.
**Signal word** No signal word
**Hazard statement(s)** none
**Precautionary statement(s)**
**Prevention** none
**Response** none
**Storage** none
**Disposal** none

### 2.3 Other hazards which do not result in classification

no data available

## 3. Composition/information on ingredients

### 3.1 Substances

not applicable

### 3.2 Mixtures

| Chemical name | Common names and synonyms | CAS number | EC number | % [weight] |
|---|---|---|---|---|
| Water | Water | 7732-18-5 | 231-791-2 | 78.39% |
| Sodium chloride | Sodium chloride | 7647-14-5 | 231-598-3 | 14.16% |
| Sucrose | Sucrose | 57-50-1 | 200-334-9 | 2.28% |
| Poly(oxy-1,2-ethanediyl)α,-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated | Poly (ethylene glycol) - 4000 | 25322-68-3 | 500-038-2 | 1.33% |
| Potassium sodium tartrate | Potassiumsodium tartrate tetrahydrate | 6381-59-5 | 613-385-0 | 1.07% |
| Potassiumchloride | Potassiumchloride | 7447-40-7 | 231-211-8 | 0.81% |
| Phosphoric acid, sodium salt, hydrate (1:2:12) | disodium hydrogen phosphate | 10039-32-4 | 600-088-6 | 0.63% |
| Glycerol | Glycerol | 56-81-5 | 200-289-5 | 0.51% |
| Trisodiumcitrate | Sodium citrate | 68-04-2 | 200-675-3 | 0.42% |
| 2-Pyrrolidinone, 1-ethenyl-, homopolymer | PVP40 | 9003-39-8 | 618-363-4 | 0.35% |
| Potassium dihydrogenorthophosphate | Potassium dihydrogen phosphate | 7778-77-0 | 231-913-4 | 0.05% |



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## 4. First-aid measures

### 4.1 Description of necessary first-aid measures

**Following inhalation**

Move the victim into fresh air. Ifbreathing is difficult, give oxygen. Ifnot breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation ifthe victim ingested or inhaled the chemical.

**Following skin contact**

Take off contaminated clothing immediately. Wash offwith soap and plenty ofwater.

**Following eye contact**

Rinse with pure water for at least 15 minutes.

**Following ingestion**

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconsciousperson.

### 4.2 Most important symptoms/effect s, acute and delayed

no data available

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

no data available

## 5. Fire-fighting measures

### 5.1 Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistantfoam.

### 5.2 Specific hazards arising from the chemical

**Hazardous combustion products**

no data available

### 5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting ifnecessary.

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ventilation. Collect leaking and spilled liquid in covered containers as far as possible. Absorb remaining liquid in sand or inert absorbent. Then store and dispose of according to local regulations.

### 6.2 Environmental precautions

Prevent further spillage or leakage ifit is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

### 6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources ofignition. Use spark-prooftools and explosion-proofequipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

## 7. Handling and storage

### 7.1 Precautions for safe handling

Handling in a well ventilated place. Avoid contact with skin and eyes. Avoid formation ofdust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

### 7.2 Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilatedplace. Store apart from foodstuffcontainers or incompatiblematerials.

## 8. Exposure controls/personal protection

### 8.1 Control parameters

**Occupational Exposure limit values**

pure CAS 56-81-5: MAK: (inhalable fraction): 200 mg/m3; peak limitation category: I(2); pregnancy risk group: C

**Biological limit values**

no data available

### 8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Setup emergency exits and the risk-elimination area.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)



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**Eye/face protection**

Wear safety goggles.

**Skin protection**

Handle with gloves. Wash and dry hands.

**Respiratory protection**

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

**Thermal hazards**

no data available

## 9. Physical and chemical properties

| | |
|---|---|
| **Physical state** | Transparent liquid. |
| **Colour** | Colourless. |
| **Odour** | Weak odour. |
| **Melting point/freezing point** | pure CAS 7732-18-5: 0 。C;pure CAS 7647-14-5: 801 °C. Atm. press.:1 atm.;pure CAS 57-50-1: 190-192。C;pure CAS 6381-59-5: 70-80。C;pure CAS 7447-40-7: 770-773°C;pure CAS 10039-32-4: 35。C;pure CAS 56-81-5: 18°C;pure CAS 68-04-2: > 300°C;pure CAS 7778-77-0: 253°C |
| **Boiling point or initial boiling point and boiling range** | pure CAS 7732-18-5: 100°C(lit.);pure CAS 7647-14-5: 1465°C/1 atm(lit.);pure CAS 57-50-1: 697.1。C at 760 mmHg;pure CAS 6381-59-5: 399.3。C at 760 mmHg;pure CAS 7447-40-7: 146°C;pure CAS 10039-32-4: 158。C at 760 mmHg;pure CAS 56-81-5: 290°C;pure CAS 7778-77-0: > 449.85°C. Atm. press.:Pa. |
| **Flammability** | non flammable |
| **Lower and upper explosion limit/flammability limit** | no data available |
| **Flash point** | no data available |
| **Auto-ignition temperature** | pure CAS 56-81-5: 393°C |
| **Decomposition temperature** | no data available |
| **pH** | pure CAS 7447-40-7: 7. Remarks:Temperature and concentration not reported.;pure CAS 68-04-2: 8.4. Remarks:Ambient temperature.;pure CAS 7778-77-0: Between 4,2 and 4,8 (1 % solution) |
| **Kinematic viscosity** | pure CAS 56-81-5: dynamic viscosity (in mPa s) = 1 412. Temperature:20°C.;dynamic viscosity (in mPa s) = 612. Temperature:30.0°C.;dynamic viscosity (in mPa s) = 14.8. Temperature:100.0°C. |
| **Solubility** | pure CAS 7647-14-5: In water: 317 g/L. Temperature:20 °C. pH:> = 7 - <= 10. Remarks:At 1 vol%.;pure CAS 57-50-1: Solubility in water, g/100 ml at 25°C: 200 ;pure CAS 6381-59-5: In water: 630 g/L (20 。C);pure CAS 7447-40-7: Solubility in water at 20°C: good ;pure CAS 10039-32-4: In water: 218 g/L (20 。C);pure CAS 56-81-5: Solubility in water: miscible;pure CAS 68-04-2: Solubility in water, g/100 ml at 25°C: 42.5 ;pure CAS 7778-77-0: Solubility in water, g/100ml: 22 |
| **Partition coefficient n-octanol/water** | pure CAS 57-50-1: -3.67;pure CAS 56-81-5: -1.76;pure CAS 68-04-2: log Pow = -1.72. |
| **Vapour pressure** | pure CAS 7732-18-5: 3 mmHg ( 37 °C);pure CAS 7647-14-5: 1 mmHg ( 865 °C);pure CAS 56-81-5: 0.01 Pa(25°C);pure CAS 68-04-2: 0 Pa. Temperature:25 °C. Remarks:Extrapolated.;pure CAS 7778-77-0: 4.5 fPa. Temperature:25 °C. |
| **Density and/or relative density** | pure CAS 7732-18-5: 1.000g/mL at 3.98°C(lit.);pure CAS 7647-14-5: 2.16. Temperature:25 °C.;pure CAS 57-50-1: 1.6 g/cm3;pure CAS 6381-59-5: 1.79;pure CAS 7447-40-7: 1.98 g/cm3;pure CAS 10039-32-4: 1.52 g/cm3;pure CAS 56-81-5: 1.26;pure CAS 68-04-2: 1.857. Temperature:20 °C.;pure CAS 7778-77-0: 2.34 g/cm3 |
| **Relative vapour density** | pure CAS 7732-18-5: <1 (vs air);pure CAS 56-81-5: 3.1 (vs air) |
| **Particle characteristics** | not applicable |

## 10. Stability and reactivity

### 10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions are known under conditions of normal use.

### 10.4 Conditions to avoid

Avoid high temperatures and direct sunlight.

### 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

## 11. Toxicological information



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**Acute toxicity**

- Oral: pure CAS 25322-68-3: LD50 - rat (female) - > 2 000 mg/kgbw.;pure CAS 7447-40-7: LD50 - rat (female) - ca. 3 020 mg/kgbw. Remarks:Death occurred in less than 2 hours after dosing due to respiratory failure and prostration was the most common pre-mortem clinical sign.;pure CAS 56-81-5: LD50 Rat oral 12.6 g/kg;pure CAS 68-04-2: LD50 - mouse (male/female) - 5 400 mg/kgbw. Remarks:Observation limited to 10 days.;pure CAS7778-77-0: LD50 Mouse oral 2820 mg/kgbw
- Inhalation: pure CAS 56-81-5: LC50 Rat inhalation > 570 mg/cu m/1 hr
- Dermal: pure CAS 25322-68-3: LD50 - rat (male/female) - > 2 000 mg/kgbw.;pure CAS 68-04-2: LD50 - rat (male/female) - > 2 000 mg/kgbw.;pure CAS 7778-77-0: LD50 - rat (male/female) - > 2 000 mg/kg bw.

**Skin corrosion/irritation**

no data available

**Serious eye damage/irritation**

no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

no data available

**Reproductive toxicity**

no data available

**STOT-single exposure**

pure CAS 57-50-1: May cause mechanical irritation.;pure CAS 7447-40-7: The substance is irritating to the eyes and respiratory tract. Ingestion oflarge amounts could cause effects on the cardiovascular system. This may result in cardiac dysrhythmia.;pure CAS 68-04-2: The substance is irritating to the eyes and respiratory tract.;pure CAS 7778-77-0: The substance is irritating to the eyes, skin and respiratory tract.

**STOT-repeated exposure**

pure CAS 57-50-1: The substance may have effects on the teeth. This may result in dental caries. Repeated or prolonged contact with skin may cause dermatitis.

**Aspiration hazard**

pure CAS 25322-68-3: A nuisance-causing concentration ofairborne particles can be reached quickly when dispersed.;pure CAS7447-40-7: Evaporation at 20°C is negligible; a nuisance-causing concentration of airborne particles can, however, be reached quickly when dispersed, especially ifpowdered.;pure CAS 56-81-5: Evaporation at 20°C is negligible; a nuisance-causing concentration ofairborne particles can, however, be reached quickly on spraying.;pure CAS 68-04-2: Evaporation at 20°C is negligible; a nuisance-causing concentration of airborne particles can, however, be reached quickly when dispersed.;pure CAS 7778-77-0: A harmful concentration of airborne particles can be reached quickly when dispersed, especially ifpowdered.

## 12. Ecological information

### 12.1 Toxicity

- Toxicity to fish: pure CAS 7647-14-5: LC50 - Lepomis macrochirus - 5 840 mg/L - 96 h.;pure CAS 25322-68-3: LC50 - Poecilia reticulata - > 100 mg/L - 96 h.;pure CAS 7447-40-7: LC50 - Pimephales promelas - 880 mg/L - 96 h.;pure CAS 56-81-5: LC50 - Oncorhynchus mykiss (previous name: Salmogairdneri) - 54 000 mg/L - 96 h.;pure CAS 68-04-2: LC50 - Leuciscusidus melanotus - 440 mg/L - 48 h.;pure CAS 7778-77-0: LC50 - Oncorhynchus mykiss (previous name: Salmo gairdneri) - > 100 mg/L - 96 h. Remarks:Potassium.
- Toxicity to daphnia and other aquatic invertebrates:pure CAS 7647-14-5: LC50 - Daphnia magna - 874 mg/L - 48. Remarks:Complete immobilisation and no response to gentle agitation.;pure CAS 25322-68-3: LC50 - Daphnia magna - 9 096.488 mg/L - 24 h.;pure CAS 7447-40-7: EC50 - see below - >= 440 - <= 880 mg/L - 48 h.;pure CAS 56-81-5: LC50 - Daphnia magna - 1 955 mg/L - 48 h.;pure CAS 68-04-2: LC50 - Daphnia magna - 1 535 mg/L - 24 h.;pure CAS 7778-77-0: EC50 - Daphnia magna - > 100 mg/L - 48 h. Remarks:Phosphate.
- Toxicity to algae: pure CAS 7647-14-5: EC50 - Nitzschia sp. - 2 430 mg/L - 120 h.;pure CAS 25322-68-3: EC50 - Pseudokirchneriella subcapitata(previous names: Raphidocelissubcapitata, Selenastrumcapricornutum) - 15.915 mg/L - 72 h.;pure CAS7447-40-7:EC50 - Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) - > 100 mg/L - 72 h.;pure CAS 56-81-5: EC3 - Scenedesmus quadricauda - > 10 000 mg/L - 8 d.;pure CAS 68-04-2: Toxicity Threshold - Scenedesmus quadricauda - 640 mg/L - 8 d.;pure CAS 7778-77-0: EC50 - Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) - > 100 mg/L - 72 h.
- Toxicity to microorganisms: pure CAS 7647-14-5: NOEC - activated sludge - 5 000 - 8 000 mg/L. Remarks:Respiration rate.;pure CAS 25322-68-3: IGC50- Tetrahymena pyriformis - 770.636 mg/L - 48 h.;pure CAS 7447-40-7: EC50 - activated sludge, domestic - > 1 000 mg/L - 3 h. Remarks:Respiration rate.;pure CAS 56-81-5: Toxicity Threshold - Pseudomonas putida - > 10 000 mg/L - 16 h.;pure CAS 68-04-2: TT - Pseudomonas putida - > 10 000 mg/L - 16 h.;pure CAS 7778-77-0: EC50 - activated sludge ofa predominantly domestic sewage - > 1 000 mg/L - 3 h. Remarks:Respiration rate.

### 12.2 Persistence and degradability

AEROBIC:Glycerin, present at 100 mg/L, reached 63% ofits theoretical BOD in 2 weeks using an activated sludge inoculum at 30 mg/L in the Japanese MITItest(1).Biodegradation rate constants of0.258/day and 0.200/day in respirometric test systems employing activated sludge have also been reported, corresponding to 68% and 78% degradation, respectively(2).

### 12.3 Bioaccumulative potential

An estimated BCF of3 was calculated in fish for glycerin(SRC),using a log Kow of-1.76(1) and a regression-derived equation(2). According to a classification scheme(3), this BCF suggests the potential for bioconcentration in aquatic organisms is low(SRC).

### 12.4 Mobility in soil



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Using a structure estimation method based on molecular connectivity indices(1), the Koc ofglycerin can be estimated to be 1(SRC). According to a classification scheme(2), this estimated Kocvalue suggests that glycerin is expected to have very high mobility in soil.

### 12.5 Other adverse effects

no data available

## 13. Disposal considerations

### 13.1 Disposal methods

**Product**

The material can be disposed ofby removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

**Contaminated packaging**

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed ofin a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

## 14. Transport information

### 14.1 UN number

ADR/RID:Not dangerous goods. IMDG:Not dangerous goods. IATA: Not dangerous goods.

### 14.2 UN proper shipping name

ADR/RID:Not dangerous goods.
IMDG:Not dangerous goods.
IATA: Not dangerous goods.

### 14.3 Transport hazard class(es)

ADR/RID:Not dangerous goods. IMDG:Not dangerous goods. IATA: Not dangerous goods.

### 14.4 Packing group, if applicable

ADR/RID:Not dangerous goods. IMDG:Not dangerous goods. IATA: Not dangerous goods.

### 14.5 Environmental hazards

ADR/RID:No IMDG:No IATA: No

### 14.6 Special precautions for user

no data available

### 14.7 Transport in bulk according to IMO instruments

no data available

## 15. Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

| Chemical name | Common names and synonyms | CAS number | EC number |
|---|---|---|---|
| Water | Water | 7732-18-5 | 231-791-2 |
| **European Inventory of Existing Commercial Chemical Substances (EINECS)** | | | Listed. |
| **EC Inventory** | | | Listed. |
| **United States Toxic Substances Control Act (TSCA)Inventory** | | | Listed. |
| **China Catalog of Hazardous chemicals 2015** | | | Not Listed. |
| **New Zealand Inventory of Chemicals (NZIoC)** | | | Listed. |
| **Philippines Inventory of Chemicals and Chemical Substances (PICCS)** | | | Listed. |
| **Vietnam National Chemical Inventory** | | | Listed. |
| **Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)** | | | Listed. |
| **Korea Existing Chemicals List (KECL)** | | | Listed. |
| **Chemical name** | **Common names and synonyms** | **CAS number** | **EC number** |
| Sodium chloride | Sodium chloride | 7647-14-5 | 231-598-3 |
| **European Inventory of Existing Commercial Chemical Substances (EINECS)** | | | Listed. |
| **EC Inventory** | | | Listed. |
| **United States Toxic Substances Control Act (TSCA)Inventory** | | | Listed. |
| **China Catalog of Hazardous chemicals 2015** | | | Not Listed. |
| **New Zealand Inventory of Chemicals (NZIoC)** | | | Listed. |
| **Philippines Inventory of Chemicals and Chemical Substances (PICCS)** | | | Listed. |
| **Vietnam National Chemical Inventory** | | | Listed. |
| **Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)** | | | Listed. |



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| **Korea Existing Chemicals List (KECL)** | | | Listed. |
|---|---|---|---|
| **Chemical name** | **Common names and synonyms** | **CAS number** | **EC number** |
| Sucrose | Sucrose | 57-50-1 | 200-334-9 |
| **European Inventory of Existing Commercial Chemical Substances (EINECS)** | | | Listed. |

| | |
|---|---|
| **EC Inventory** | Listed. |
| **United States Toxic Substances Control Act (TSCA)Inventory** | Listed. |
| **China Catalog of Hazardous chemicals 2015** | Not Listed. |
| **New Zealand Inventory of Chemicals (NZIoC)** | Listed. |
| **Philippines Inventory of Chemicals and Chemical Substances (PICCS)** | Listed. |
| **Vietnam National Chemical Inventory** | Listed. |
| **Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)** | Listed. |
| **Korea Existing Chemicals List (KECL)** | Listed. |

| Chemical name | Common names and synonyms | CAS number | EC number |
|---|---|---|---|
| Poly(oxy-1,2-ethanediyl)α,-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated | Poly (ethylene glycol) - 4000 | 25322-68-3 | 500-038-2 |

| | |
|---|---|
| **European Inventory of Existing Commercial Chemical Substances (EINECS)** | Not Listed. |
| **EC Inventory** | Listed. |
| **United States Toxic Substances Control Act (TSCA)Inventory** | Listed. |
| **China Catalog of Hazardous chemicals 2015** | Not Listed. |
| **New Zealand Inventory of Chemicals (NZIoC)** | Listed. |
| **Philippines Inventory of Chemicals and Chemical Substances (PICCS)** | Listed. |
| **Vietnam National Chemical Inventory** | Listed. |
| **Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)** | Listed. |
| **Korea Existing Chemicals List (KECL)** | Listed. |

| Chemical name | Common names and synonyms | CAS number | EC number |
|---|---|---|---|
| Potassium sodium tartrate | Potassium sodium tartrate tetrahydrate | 6381-59-5 | 613-385-0 |

| | |
|---|---|
| **European Inventory of Existing Commercial Chemical Substances (EINECS)** | Not Listed. |
| **EC Inventory** | Not Listed. |
| **United States Toxic Substances Control Act (TSCA)Inventory** | Not Listed. |
| **China Catalog of Hazardous chemicals 2015** | Not Listed. |
| **New Zealand Inventory of Chemicals (NZIoC)** | Listed. |
| **Philippines Inventory of Chemicals and Chemical Substances (PICCS)** | Listed. |
| **Vietnam National Chemical Inventory** | Listed. |
| **Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)** | Listed. |
| **Korea Existing Chemicals List (KECL)** | Not Listed. |

| Chemical name | Common names and synonyms | CAS number | EC number |
|---|---|---|---|
| Potassiumchloride | Potassiumchloride | 7447-40-7 | 231-211-8 |

| | |
|---|---|
| **European Inventory of Existing Commercial Chemical Substances (EINECS)** | Listed. |
| **EC Inventory** | Listed. |
| **United States Toxic Substances Control Act (TSCA)Inventory** | Listed. |
| **China Catalog of Hazardous chemicals 2015** | Not Listed. |
| **New Zealand Inventory of Chemicals (NZIoC)** | Listed. |
| **Philippines Inventory of Chemicals and Chemical Substances (PICCS)** | Listed. |
| **Vietnam National Chemical Inventory** | Listed. |
| **Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)** | Listed. |
| **Korea Existing Chemicals List (KECL)** | Listed. |

| Chemical name | Common names and synonyms | CAS number | EC number |
|---|---|---|---|
| Phosphoric acid, sodium salt, hydrate (1:2:12) | disodium hydrogen phosphate | 10039-32-4 | 600-088-6 |

| | |
|---|---|
| **European Inventory of Existing Commercial Chemical Substances (EINECS)** | Not Listed. |
| **EC Inventory** | Not Listed. |
| **United States Toxic Substances Control Act (TSCA)Inventory** | Not Listed. |
| **China Catalog of Hazardous chemicals 2015** | Not Listed. |
| **New Zealand Inventory of Chemicals (NZIoC)** | Listed. |
| **Philippines Inventory of Chemicals and Chemical Substances (PICCS)** | Listed. |
| **Vietnam National Chemical Inventory** | Listed. |
| **Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)** | Listed. |
| **Korea Existing Chemicals List (KECL)** | Not Listed. |



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| Chemical name | Common names and synonyms | CAS number | EC number |
|---|---|---|---|
| Glycerol | Glycerol | 56-81-5 | 200-289-5 |

| | |
|---|---|
| **European Inventory of Existing Commercial Chemical Substances (EINECS)** | Listed. |
| **EC Inventory** | Listed. |
| **United States Toxic Substances Control Act (TSCA)Inventory** | Listed. |
| **China Catalog of Hazardous chemicals 2015** | Not Listed. |
| **New Zealand Inventory of Chemicals (NZIoC)** | Listed. |

| | | | |
|---|---|---|---|
| **Philippines Inventory of Chemicals and Chemical Substances (PICCS)** | | | Listed. |
| **Vietnam National Chemical Inventory** | | | Listed. |
| **Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)** | | | Listed. |
| **Korea Existing Chemicals List (KECL)** | | | Listed. |
| **Chemical name** | **Common names and synonyms** | **CAS number** | **EC number** |
| Trisodiumcitrate | Sodium citrate | 68-04-2 | 200-675-3 |
| **European Inventory of Existing Commercial Chemical Substances (EINECS)** | | | Listed. |
| **EC Inventory** | | | Listed. |
| **United States Toxic Substances Control Act (TSCA)Inventory** | | | Listed. |
| **China Catalog of Hazardous chemicals 2015** | | | Not Listed. |
| **New Zealand Inventory of Chemicals (NZIoC)** | | | Listed. |
| **Philippines Inventory of Chemicals and Chemical Substances (PICCS)** | | | Listed. |
| **Vietnam National Chemical Inventory** | | | Listed. |
| **Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)** | | | Listed. |
| **Korea Existing Chemicals List (KECL)** | | | Listed. |
| **Chemical name** | **Common names and synonyms** | **CASnumber** | **EC number** |
| 2-Pyrrolidinone, 1-ethenyl-, homopolymer | PVP40 | 9003-39-8 | 618-363-4 |
| **European Inventory of Existing Commercial Chemical Substances (EINECS)** | | | Not Listed. |
| **EC Inventory** | | | Not Listed. |
| **United States Toxic Substances Control Act (TSCA)Inventory** | | | Listed. |
| **China Catalog of Hazardous chemicals 2015** | | | Not Listed. |
| **New Zealand Inventory of Chemicals (NZIoC)** | | | Listed. |
| **Philippines Inventory of Chemicals and Chemical Substances (PICCS)** | | | Listed. |
| **Vietnam National Chemical Inventory** | | | Listed. |
| **Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)** | | | Listed. |
| **Korea Existing Chemicals List (KECL)** | | | Listed. |
| **Chemical name** | **Common names and synonyms** | **CASnumber** | **EC number** |
| Potassium dihydrogenorthophosphate | Potassium dihydrogen phosphate | 7778-77-0 | 231-913-4 |
| **European Inventory of Existing Commercial Chemical Substances (EINECS)** | | | Listed. |
| **EC Inventory** | | | Listed. |
| **United States Toxic Substances Control Act (TSCA)Inventory** | | | Listed. |
| **China Catalog of Hazardous chemicals 2015** | | | Not Listed. |
| **New Zealand Inventory of Chemicals (NZIoC)** | | | Listed. |
| **Philippines Inventory of Chemicals and Chemical Substances (PICCS)** | | | Listed. |
| **Vietnam National Chemical Inventory** | | | Listed. |
| **Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)** | | | Listed. |
| **Korea Existing Chemicals List (KECL)** | | | Listed. |

## 16. Other information

**Information on revision**

**Creation Date** Mar. 18, 2024
**Revision Date** Mar. 18, 2024

**Abbreviations and acronyms**

- CAS:Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage ofDangerous Goods by Road
- RID: Regulation concerning the International Carriage ofDangerous Goods by Rail
- IMDG:InternationalMaritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50:Effective Concentration50%



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**References**


- IPCS - The International Chemical Safety Cards (ICSC),website:http://www.ilo.org/dyn/icsc/showcard.home
- HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- IARC- InternationalAgency for Research on Cancer, website:http://www.iarc.fr/
- eChemPortal - The Global Portal to Information on Chemical Substances by OECD,website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=n
- CAMEOChemicals, website: http://cameochemicals.noaa.gov/search/simple
- ChemIDplus,website:http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- ERG - Emergency Response Guidebook byU.S. Department ofTransportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- ECHA- European Chemicals Agency, website: https://echa.europa.eu/


**Any questions regarding this SDS, please send your inquiry to sds@xixisys.com.**

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