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 Mouse GDF1(Growth Differentiation Factor 1) Microsample ELISA Kit

1.2 Other means of identification

Product number -ELK6712MS
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%

+86-27-59760950 ELKbio@ELKbiotech.com www.elkbiotech.com
23-2, No.388 Gaoxin 2nd Road,Wuhan East Lake Hi-tech Development Zone, Hubei , P.R.C

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)

+86-27-59760950 ELKbio@ELKbiotech.com www.elkbiotech.com

23-2, No.388 Gaoxin 2nd Road,Wuhan East Lake Hi-tech Development Zone, Hubei , P.R.C

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

+86-27-59760950 ELKbio@ELKbiotech.com www.elkbiotech.com

23-2, No.388 Gaoxin 2nd Road, Wuhan East Lake Hi-tech Development Zone, Hubei , P.R.C

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

+86-27-59760950 ELKbio@ELKbiotech.com www.elkbiotech.com

23-2, No.388 Gaoxin 2nd Road,Wuhan East Lake Hi-tech Development Zone, Hubei , P.R.C

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.

+86-27-59760950 ELKbio@ELKbiotech.com www.elkbiotech.com

23-2, No.388 Gaoxin 2nd Road,Wuhan East Lake Hi-tech Development Zone, Hubei , P.R.C

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.

+86-27-59760950 ELKbio@ELKbiotech.com www.elkbiotech.com

23-2, No.388 Gaoxin 2nd Road,Wuhan East Lake Hi-tech Development Zone, Hubei , P.R.C

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%

+86-27-59760950 ELKbio@ELKbiotech.com www.elkbiotech.com

23-2, No.388 Gaoxin 2nd Road,Wuhan East Lake Hi-tech Development Zone, Hubei , P.R.C

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.

Disclaimer: The above information is believed to be correct but does notpurport to be all inclusive and shall be used only as a guide. The information in this document is based on thepresent state ofour knowledge and is applicable to theproduct with regard to appropriate safetyprecautions. It does not represent any guarantee of theproperties oftheproduct. We as suppliershall not beheld liablefor any damage resultingfrom handling orfrom contact with the aboveproduct.

+86-27-59760950 ELKbio@ELKbiotech.com www.elkbiotech.com

23-2, No.388 Gaoxin 2nd Road,Wuhan East Lake Hi-tech Development Zone, Hubei , P.R.C