

## Safety Data Sheet

# Protector KCL

Version : V1.0.0.1

Report No. : KCLM

Creation Date : 2018/02/9

Revision Date : 2018/12/10

\*Prepared according to UN GHS (the 6th revised edition)

## 1 Identification of the chemical and supplier

### Product identifier

Product Name	Protector KCL
Cat No.	T025
Synonyms	-
CAS No.	-
EC No.	-
Molecular Formula	-

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

### Details of the supplier of the Safety Data Sheet

Name of the company	SHANGHAI XIANTUO FINE CHEMICAL CO., LTD.
Address of the company	650 jinhuan rd., jinshanwei town. jinshan, shanghai, China
Post code	201512
Telephone number	021-37285700
Fax number	021-37285590
E-mail address	<a href="mailto:sh_niu@zhanhegroup.com">sh_niu@zhanhegroup.com</a> ; <a href="mailto:j_niu@zhanhegroup.com">j_niu@zhanhegroup.com</a>
Name of the exporter	SUZHOU GUOXIN GROUP WANG SHUN IMP&EXP CO., LTD.

### Emergency phone number

Emergency phone number	021-64873737
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## 2 Hazards identification

### Hazard classification according to GHS

Hazard classification of GHS	Not applicable
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### Label elements

Hazard pictograms	
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<b>Signal word</b>	Warning
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### **Hazard statements**

<b>H302</b>	Harmful if swallowed
<b>H312</b>	Harmful in contact with skin
<b>H332</b>	Harmful if inhaled

### **Precautionary statements**

#### ◆ Prevention

<b>P264</b>	Wash ... thoroughly after handling.
<b>P270</b>	Do not eat, drink or smoke when using this product.

#### ◆ Response

<b>P301+ P312</b>	Call a POISON CENTER/doctor, if you feel unwell.
<b>P330</b>	Rinse mouth.

#### ◆ Storage

<b>P501</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
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#### ◆ Disposal

<b>P501</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
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### **Hazard description**

#### ◆ Physical and chemical hazards

	No information available
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#### ◆ Health hazards

<b>Inhaled</b>	Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.
<b>Ingestion</b>	Accidental ingestion of the product may be harmful to the health of the individual.
<b>Skin Contact</b>	Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.
<b>Eye</b>	This product may cause temporary discomfort following direct contact with the eye.

#### ◆ Environmental hazards

	This product is toxic to aquatic life. Please refer to 12th chapter of SDS.
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## **3 Composition/information on ingredients**

<b>Component</b>	<b>Cas No.</b>	<b>EC No.</b>	<b>Concentration (weight percent, %)</b>
Proprietary	Proprietary		Proprietary

Others	Proprietary		Proprietary
Water	7732-18-5	231-791-2	Proprietary

## 4 First aid measures

### Description of first aid measures

<b>General advice</b>	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Skin contact</b>	Take off contaminated clothing and shoes immediately. Wash off with plenty of water and consult a physician if feel uncomfortable.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Inhalation</b>	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give cardiopulmonary resuscitation and consult a physician immediately.
<b>Protecting of first-aiders</b>	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

### Most important symptoms and effects, both acute and delayed

1	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
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### Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

## 5 Firefighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	Extinguishing media suitable for surrounding environment.
<b>Unsuitable extinguishing media</b>	No restriction on types of extinguishing media.

### Specific hazards arising from the substance or mixture

1	Containers may explode when heated.
2	May expansion or decompose explosively when heated or involved in fire.

### Advice for firefighters

1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

1	Ensure adequate ventilation. Remove all sources of ignition. Adopt static-proof measures.
2	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
3	Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

## Environmental precautions

1	Prevent further leakage or spillage if safe to do so.
2	Discharge into the environment must be avoided.

## Methods and materials for containment and cleaning up

1	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
2	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
3	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

## 7 Handling and storage

### Precautions for handling

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.
4	Keep away from heat/sparks/open flames/ hot surfaces.

### Precautions for storage

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/ hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

## 8 Exposure controls/personal protection

### Control parameters

#### ◆ Occupational Exposure limit values

Occupational Exposure limit values	Components	Country/Area	Limit value (8h)		Limit value (short time)	
	Proprietary		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
		Korea	-	0.05	-	-
		New Zealand	-	0.2	-	-
		Ireland	-	0.1	-	-
		Denmark	-	0.3	-	0.6
		Australia	-	0.1	-	-

#### ◆ Biological limit values

<b>Biological limit values</b>	No information available
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#### ◆ Monitoring methods







1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air ( Series standard ).

### Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.

3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

### Personal protection equipment

General requirement	     
Eye protection	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US)).
Hand protection	Wear protective gloves ( such as butyl rubber ) , passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.
Respiratory protection	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
Skin and body protection	Wear fire/flame resistant/retardant clothing and antistatic boots.

## 9 Physical and chemical properties

### Physical and chemical properties

Appearance	Whitish semi-transparent liquid
Odor	No information available
Odor threshold	No information available
pH	4.5~6.5
Melting point/freezing point(°C)	No information available
Initial boiling point and boiling range(°C)	No information available
Flash point(Closed cup,°C)	No information available
Evaporation rate	No information available
Flammability	Not flammable
Upper/lower explosive limits[% (v/v)]	Upper limit : No information available ; Lower limit : No information available
Vapor pressure	No information available
Relative vapour density(Air = 1)	No information available
Relative density(Water=1)	No information available
Solubility(mg/L)	Very soluble in water
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(°C)	Not flammable
Decomposition temperature(°C)	No information available
Kinematic viscosity	No information available
Particle characteristics	Not applicable

## 10 Stability and reactivity

**| Stability and reactivity**

<b>Reactivity</b>	Contact with incompatible substances can cause decomposition or other chemical reactions.
<b>Chemical stability</b>	Stable under proper operation and storage conditions.
<b>Possibility of hazardous reactions</b>	Contact with alkali metal or active metal such as sodium and calcium will release hydrogen.
<b>Conditions to avoid</b>	Incompatible materials, heat, flame and spark.
<b>Incompatible materials</b>	Alkali metal, active metal such as sodium and calcium, halogen, metallic oxide, nonmetallic oxide, acid halide, metal phosphides.
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**11 Toxicological information****| Acute toxicity**

	No information available
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**| Carcinogenicity**

	ID	CAS No.	Components	IARC	NTP
	1	Proprietary	Others	Not Listed	Not Listed
	2	Proprietary	Proprietary	Category 1	Not Listed
	3	7732-18-5	Water	Not Listed	Not Listed

**| Others**

Protector KCL	
<b>Skin corrosion/irritation</b>	No information available
<b>Serious eye damage/irritation</b>	No information available
<b>Skin sensitization</b>	No information available
<b>Respiratory sensitization</b>	No information available
<b>Reproductive toxicity</b>	No information available
<b>STOT-single exposure</b>	No information available
<b>STOT-repeated exposure</b>	No information available
<b>Aspiration hazard</b>	No information available
<b>Germ cell mutagenicity</b>	No information available
<b>Reproductive toxicity(additional)</b>	No information available

**12 Ecological information****| Acute aquatic toxicity**

	No information available
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**| Chronic aquatic toxicity**

	No information available
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**| Others**

Persistence and degradability	Components	Cas No	Persistence and degradability (water/soil)	Persistence (Air)
	Water	7732-18-5	Low	Low

Bioaccumulative potential	Components	Cas No	Bioaccumulative potential	Remark
	Water	7732-18-5	Low	LogKOW=-1.38
Mobility in soil	Components	Cas No	Mobility in soil	Organic soil/water distribution coefficient (Koc)
	Water	7732-18-5	Low	14.3
Results of PBT and vPvB assessment	Components	Cas No	PBT/vPvB Assessment Result (EC No 1907/2006)	
	Others	Proprietary	Not belong to	
	Proprietary	Proprietary	Not belong to	
	Water	7732-18-5	Not belong to	
	COD	130mg/kg (1g/L sol)		

## 13 Disposal considerations

### | Disposal considerations

<b>Waste chemicals</b>	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
<b>Contaminated packaging</b>	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
<b>Disposal recommendations</b>	Refer to section 13.1and 13.2.

## 14 Transport information

### | Label and Mark

<b>Transporting Label</b>	Not applicable
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### | IMDG-CODE

<b>IMDG-CODE</b>	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### | ICAO/IATA-DG

<b>ICAO/IATA-DG</b>	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### | UN-ADR

<b>UN-ADR</b>	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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## 15 Regulatory information

### | International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Others	✓	✓	✗	✓	✗	✓	✗	✗	✗
Proprietary	✓	✓	✓	✓	✓	✓	✓	✓	✓
Water	✓	✓	✓	✓	✓	✓	✓	✓	✗

【EINECS】 European Inventory of Existing Commercial Chemical Substances

【TSCA】 United States Toxic Substances Control Act Inventory

【DSL】 Canadian Domestic Substances List

【IECSC】 China Inventory of Existing Chemical Substances

<b>[NZIoC]</b>	New Zealand Inventory of Chemicals
<b>[PICCS]</b>	Philippines Inventory of Chemicals and Chemical Substances
<b>[KECI]</b>	Existing and Evaluated Chemical Substances
<b>[AICS]</b>	Australia Inventory of Chemical Substances
<b>[ENCS]</b>	Existing And New Chemical Substances

**Note**

"√" Indicates that the substance included in the regulations

"x" That no data or included in the regulations

## 16 Others

### Information on revision

<b>Creation Date</b>	2018/02/9
<b>Revision Date</b>	2018/12/10
<b>Reason for revision</b>	-

### Reference

[1]IPCS:The International Chemical Safety Cards (ICSC) ,website: <http://www.ilo.org/dyn/icsc/showcard.home>.

[2]IARC , website: <http://www.iarc.fr/>.

[3]OECD: The Global Portal to Information on Chemical Substances, website:  
[http://www.echemportal.org/echemportal/index?pageID=0&request\\_locale=en](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en).

[4]CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.

[5]NLM:ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.

[6]EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.

[7]U.S. Department of Transportation:ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.

[8]Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

### Abbreviations and acronyms

**CAS** –Chemical Abstracts Service

**PC-STEL**- Short term exposure limit

**DNEL** - Derived No Effect Level

**RPE** - Respiratory Protective Equipment

**LC<sub>50</sub>** - Lethal Concentration 50%

**NOEC** -No Observed Effect Concentration

**PBT** - Persistent, Bioaccumulative, Toxic

**BCF** - Bioconcentration factor (BCF)

**IMDG**-International Maritime Dangerous Goods

**UN**-The United Nations

**NFPA**-National Fire Protection Association

**CMR** - Carcinogens, mutagens or substances toxic to reproduction

**PC-TWA** - Time Weighted Average

**IARC** - International Agency for Research on Cancer

**PNEC** –Predicted No Effect Concentration

**LD<sub>50</sub>** - Lethal Dose 50%

**EC<sub>50</sub>** - Effective Concentration 50%

**POW** - Partition coefficient Octanol:Water

**vPvB** - very Persistent, very Bioaccumulative

**ICAO/IATA**-International Civil Aviation Organization/International Air Transportation Association

**ACGIH**-American Conference of Governmental Industrial Hygienists

**OECD**-Organization for Economic Co-operation and Development

### Disclaimer



This Safety Data Sheet (SDS) was prepared according to UN GHS (the 6th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user' s reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.