

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**Product Name:** Remover K23**Product Type:** Paste**Product Code:** K23**2. HAZARDS IDENTIFICATION**

According to GB 13690-2009 (General Rules for Classification of Chemicals and Hazard Communication):

Acute toxicity, Oral (Category 4), H302

Specific target organ toxicity-single exposure (Category 3), H336

For the full text of the H-Statements mentioned in this Section, See Section XVI

Label elements according to GB 15258-2009 (Provisions for the preparation of chemical safety labels)

Xn Harmful R22, R41, R67

Label elements**GHS Symbol****Signal Word** Warning**Hazard Statement(s)**

H302 Harmful if swallowed

H336 May cause drowsiness or dizziness

Precautionary Statement(s)

P261 Avoid breathing vapours.

P305+P351+P338 If in eyes Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	Cas NO.	Content (%)
γ -butyrolactone	96-48-0	< 80 %
Water	7732-18-5	> 15%
HPC	9007-20-9	<10%
TiO ₂	13463-67-7	<5%

4. FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial

respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

Indication of any immediate medical attention and special treatment

needed: no data available

5. FIRE FIGHTING PROCEDURE

EXTINGUISHING MEDIA**Suitable extinguishing media**

Use Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazard arising from the substance or mixture

Carbon dioxide

Combustible liquid

Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas.

Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept

upright to prevent leakage.

Specific end uses

no data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS

Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of workday.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards.

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique.

(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves

After use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Wear appropriate protective clothing.

Respiratory Protection

Ensure adequate ventilation.

Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

Other protection:

The selection of personal protective equipment must comply with at least the following laws and standards,"Occupational Disease Prevention Law of the People's Republic of China", "Code for Selection of Personal Protective Equipment"(GB / T 11651-2008).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Relative density
Odor threshold	Auto-ignition temperature
pH	Viscosity
Melting point/freezing point	Molecular weight
Flash point	
white,others	No data
No data	No data
4-7	Nigligible
No data	No data
No data	No data
Flammability(solid, gas)	No data
Vapor pressure	40,000~50,000 cps @ 20 °C
Solubility	No data
Vapor density	

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

Heat

Sparks and/or flames

Materials to avoid

Strong oxidizing agents

Hazardous Polymerization

Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Inhalation

Irritation, low body temperature, tinnitus, nausea, vomiting, stomachache, headache, drowsiness, dizziness, modulation loss, eyesight disturbance, pulmonary congestion, kidney damage, liver damage, coma.

Chronic Effects on Humans: The substance is toxic to blood, kidneys, the nervous system, liver.

Skin

Irritating to the skin. Considered to be of low toxicity: acute dermal.

Eyes

This product is an irritant to the eyes.

12. ECOLOGICAL INFORMATION

	Gamma-Butyrolactone
Fish	LC50-Leuciscus idus(Golden orfe) - >220 mg/l -96h
Algae	EC50-Desmodesmus subspicatus (green algae) – 360 mg/l – 72h

13. DISPOSAL CONSIDERATIONS

Product disposal:

If the waste of this product is in accordance with GB5085.7-2007 The "General Rules" are classified as hazardous waste, according to the "Regulations on the Safety Management of Dangerous Chemicals", "Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Waste", "National Hazardous Waste Inventory".

Contaminated packaging disposal:

After use, test tubes, cans and bottles containing residues should be treated as chemical contamination waste and shall be disposed of at designated waste disposal sites. Dispose according to national regulations.

14. TRANSPORT INFORMATION

Road transport ADR classification: Not dangerous goods.

Rail transportation RID classification: Not dangerous goods.

Maritime IMDG classification: Not dangerous goods.

Transportation considerations:

Traffic and transportation need to comply with local ornational regulations. Ensure that the container does not leak,collapse, or be damaged during transportation.

15. REGULATORY INFORMATION

The following laws and regulations have made corresponding provisions on the safe use, storage, transportation, loading and unloading, classification and marking of chemicals: "Safety Production Law of the People's Republic of China" (the ninth session on June 29, 2002 Adopted at the 28th meeting of the Standing Committee of the National People's Congress, revised on August 31, 2014 at the 10th meeting of the Standing Committee of the 12th National People's Congress); Law of the People's Republic of China on the Prevention and Control of Occupational Diseases (October 27, 2001) Adopted at the twenty-fourth meeting of the Standing Committee of the Ninth National People's Congress on July 2 and revised at the twenty-first meeting of the Standing Committee of the Twelfth National People's Congress on July 2, 2016); (Adopted at the eleventh meeting of the Standing Committee of the Seventh National People's Congress on December 26, 1989, and amended at the eighth meeting of the Standing Committee of the Twelfth National People's Congress of the People's Republic of China on April 24, 2014); Regulations on Chemical Safety Management (adopted by the 144th executive meeting of the State Council on February 16, 2011); Regulations on Work Safety License (adopted by the 54th executive meeting of the State Council on July 29, 2014). China Inventory of Existing Chemical Substances: All ingredients have been included in the "Inventory of Existing Chemical Substances in China" or exempted from the "Inventory of Existing Chemical Substances in China".

16. OTHER INFORMATION**Full Text of H-Statements referred to under sections II and III**

H302 Harmful if swallowed

H336 May cause drowsiness or dizziness.

Full Text of R-phrases referred to under sections II and III

Xn Harmful

R22 Harmful if swallowed.

R41 Risk of serious damage to eyes.

R67 Vapours may cause drowsiness and dizziness.

This information is based on our current level of knowledge and is relevant to the product in delivery status. It aims to describe our products from the perspective of safety requirements, and does not aim to guarantee any specific performance. The substance has been in accordance with regulations GB 13690-2009.