

Material Safety Data Sheet (MSDS)

1. Ingredient identification information

Product name: alcohol

chemical composition: viscose, ethanol, purified water

2. Hazard identification materials Health hazard effects

Eye contact: with throat irritation.

Skin contact: Long-term large-scale skin contact can cause dryness, desquamation, chapped, and dermatitis

Inhalation: Long-term large-scale inhalation can cause headache, dizziness, fatigue, irritability, tremor, nausea, etc.

Ingestion: Long-term alcohol abuse can cause polyneuropathy, chronic Gastritis, fatty liver, cirrhosis, myocardial damage, organic psychosis, etc.

3. Composition

substance	Molecular formula	CASNO.	content
Adhesive fiber	$(C_6H_{10}O_5)_n$	/	25%
ethanol	64-17-5	64-17-5	55%
Purified water	H ₂ O	7732-18-5	20%

4. first aid measure

First aid method:

Eye contact: In case of accidental eye contact, lift the eyelid and rinse with running water or saline. Send to the doctor if necessary.

Skin contact: Normal use is harmless. If you have allergies, stop using them immediately. Allergies can disappear naturally.

Inhalation: Please use with caution if you are allergic to alcohol.

Ingestion: No harm. If you have alcohol allergies, rinse your mouth with clean water, induce vomiting, and send to a doctor if necessary.

5. Fire fighting measures

Flash point: >23°C

Special hazards: none

Fire extinguishing procedures: use dry powder, carbon dioxide, water guns and other fire extinguishers

6. Leakage treatment method

Cleaning method: maintain good ventilation, collect and process, avoid diffusion pollution, incinerator incineration or disposal in landfill

7. Safe disposal and storage methods

The storage site needs to be ventilated, away from fire and heat sources, and need to be protected from rain and sunlight

8. Exposure control/personal protection

Exposure control: Because the content of 75% ethanol in the product is small, it is generally harmless. If a large amount of leakage occurs. In order to increase the alcohol content in the air, it is flammable and explosive, so ventilation should be taken in time to avoid open flame.

Personal protection: When there is a large amount of leakage, a mask should be worn to avoid large amounts of inhalation. Due to the small content of the product, there is generally no harm to skin contact

9. Physical and chemical

Solubility:insoluble

vapor pressure: -

vapor density: -

volatilization point: none

boiling point: 78°C

Freezing point: $<-48^{\circ}\text{C}$

pH value: neutral

10. Stability and reactivity

Stability: Stable

Conditions to avoid: Avoid contact with open flames

Hazardous decomposition products: None

11. Toxicity information

Human impact report: Human inhalation 4.3 mg/L×50 minutes, head and face fever, cold limbs, headache; human inhalation 2.6 mg/L×39 minutes, headache, no aftereffect.

Animal impact report:

Toxicity: low toxicity.

Acute toxicity: LD50 7060mg/kg (rat oral); 7340 mg/kg (rabbit percutaneous); LC50 37620mg/m³, 10 hours (rat inhalation);

Irritation: Rabbit eye: 500 mg, severe irritation. Rabbit percutaneous open stimulation test: 15 mg/24 hours, mild stimulation.

Subacute and chronic toxicity: rat 10.2 g/(kg·day), 12 weeks: weight loss, fatty liver. Mutagenicity: (microbial mutagenicity) negative for Salmonella typhimurium.

Dominant lethal test: The mice were given 1 to 1.5 g/(kg·day) orally for 2 weeks, positive. Reproductive toxicity: The lowest toxic concentration (TDLO) in the abdominal cavity of rats: 7.5 g/kg (9 days of pregnancy), positive for teratogenicity.

Carcinogenicity: the lowest oral poisoning dose (TDLO) in mice: 340 mg/kg (57 weeks, intermittent), carcinogenic positive

12. Ecological information No ecotoxicity and chemical lethality

13. Disposal opinions According to local government regulations, business waste storage, removal treatment methods and facility standards

14. Shipping information

Follow international and local regulations.

15. Regulatory information Labor safety and health facilities rules, road traffic safety rules, business waste storage and disposal methods and facility standards

广州市爱创医疗科技有限公司
GUANGZHOU ICARE MEDICAL TECHNOLOGY CO.,LTD.