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"A-Z Product Solutions for Trade and Industry"

MATERIAL SAFETY DATA SHEET

MANUFACTURER LOCATION: GUANGZHOU RUIHE MEDICINE TECHNOLOGY CO LTD

PART 1 – IDENTIFICATION OF THE SUBSTANCE

PRODUCT: ALCOHOL BASED HAND DISINFECTANT

VOLUME: 500ML

PURPOSE: FOR HAND AND SKIN DISINFECTION

PART 2 – HAZARDS IDENTIFICATION

FLAMMABLE LIQUID:	CLASSIFICATION 2
SEVERE EYE INJURY/EYE IRRITATION:	CLASSIFICATION 2A
CARCINOGENICITY:	CLASSIFICATION 1A
REPRODUCTIVE TOXICITY:	CLASSIFICATION 1A
HETEROLOGOUS TARGET ORGAN TOXICITY – SINGLE EXPOSURE:	CLASSIFICATION 3
HETEROLOGOUS TARGET ORGAN TOXICITY – REPEATED EXPOSURE:	CLASSIFICATION 1
ASPIRATION HAZAZRD:	NO CLASSIFICATION

PART 3 – COMPOSITION/INFORMATION ON INGREDIENTS

NAME	CAS NO.	CONTENT
ETHANOL	64-17-5	75%
POLYHEXAMETHYLENE GUANIDINE	57028-96-3	0.45%
GLYCEROL	56-81-5	0.02%
WATER	7732-18-5	25%

PART 4 – FIRST AID MEASURES

GENERAL MEASURES: CONSULT A DOCTOR. SHOW THIS SAFETY TECHNICAL INSTRUCTION TO THE DOCTOR ON SITE.

IN CASE OF SKIN CONTACT: WASH WITH SOAP AND PLENTY OF WATER. IF YOU FEEL UNWELL, SEE A DOCTOR IMMEDIATELY.

IN CASE OF EYE CONTACT: WASH IMMEDIATELY WITH PLENTY OF WATER FOR NO LESS THAN 15 MINUTES. SEEK MEDICAL ATTENTION IMMEDIATELY.

IN CASE OF INGESTION: IF INGESTED, SEEK MEDICAL ATTENTION IMMEDIATELY.

IN CASE OF INHALATION: MOVE TO FRESH AIR. KEEP RESPIRATORY TRACT UNOBSTRUCTED. IN THE CASE OF LABOURED BREATHING, GIVE OXYGEN. SEEK MEDICAL ATTENTION IMMEDIATELY IF DIFFICULTY BREATHING.

PART 5 – FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: DRY POWDER, DRY SAND.

HAZARDOUS CHARACTERISTICS: CARBON OXIDES, COMBUSTIBLE.

SPECIFIC METHODS: **FIREFIGHTERS SHOULD WEAR FIRE RESISTANT PROTECTIVE EQUIPMENT. WEAR SELF-CONTAINED BREATHING APPARATUS IF NECESSARY.**

PART 6 – ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES: **USE PERSONAL PROTECTIVE EQUIPMENT. AVOID INHALATION OF VAPORS, MISTS, OR GASES. ENSURE ADEQUATE VENTILATION. ELIMINATE ALL SOURCES OF IGNITION. EVACUATE PEOPLE TO A SAFE AREA. NOTE THAT THE VAPOR CAN ACCUMULATE TO AN EXPLOSIVE CONCENTRATION AND CAN ACCUMULATE IN LOW-LYING AREAS OF THE GROUND.**

ENVIRONMENTAL PRECAUTIONS: **IF SAFETY CAN BE ENSURED, MEASURES CAN BE TAKEN TO PREVENT FURTHER LEAKED OR SPILLAGE. DO NOT LET THE PRODUCT INTO THE SEWER.**

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP: **CONTAINMENT OF SPILLS, ABSORPTION OF SPILLS WITH NON CUMBUSTIBLE MATERIALS. COLLECTION INTO CONTAINERS AND DISPOSAL IN ACCORDANCE WITH LOCAL OR NATIONAL REGULATIONS.**

PART 7 – HANDLING AND STORAGE

HANDLING: **AVOID CONTACT WITH SKIN AND EYES. AVOID INHALATION OF VAPOR OR MIST. KEEP AWAY FROM FIRE. TAKE MEASURE TO PREVENT ELECTROSTATIC ACCUMULATION.**

STORAGE: **KEEP CONTAINER SEALED. KEEP AWAY FROM FIRE AND HEAT.**

PART 8 – EXPOSURE CONTROL/PERSONAL PROTECTION

NAME	CAS NO	SOURCE	CONTROL PARAMTER
ETHANOL	64-17-5	USA OSHA LIMITS FOR AIR CONTAMINANTS – 1910.1000	TWA: 1,000 PPM 1,900MG/M3
		USA. OCCUPATIONAL EXPOSURE LIMITS – TABLE Z-1 LMITS FOR AIR CONTAMINANTS	TWA: 1,000PPM 1,900MG/M3
		ACGIH	STEL: 1,000PPM
		USA NIOSH RECOMMENDED EXPOSURE LIMITS	TWA: 1,000PPM 1,900MG/M3
		CALIFORNIA PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS (TITLE 8, ARTICLE 107)	PEL: 1,000PPM 1,900MG/M3

ENGINEERING CONTROLS: **PROVIDE EFFECTIVE EYE WASH AND SAFE BATH. ENSURE ADEQUATE VENTILATION.**

EYE PROTECTION: **PROTECT EYES WITH TESTED/APPROVED MATERIALS**

RESPIRATORY SYSTEM PROTECTION: **IF THE RISK ASSESMENT SHOWS THAT THE GAS MASK WITH AIR PURIFICATION NEEDS TO BE USED, PLEASE US (EN 14387) GAS MASK CARTRIDGE AS THE BACKUP OF ENGINEERING CONTROL. USE RESPIRATORS AND PARTS THAT HAVE BEEN TESTED AND PASSED**

GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR CEN (EU).

BODY PROTECTION: CHOOSE PHYSICAL PROTECTION MEASURES ACCORDING TO THE TYPE, CONCENTRATION, AND QUANTITY OF HAZARDOUS SUBSTANCES AND SPECIFIC WORKPLACE.

HAND PROTECTION: GLOVES MUST BE CHECKED BEFORE USE. PLEASE USE PROPER METHODS TO REMOVE THE GLOVES, AVOID ANY SKIN PARTS CONTACTING THE PRODUCT. HANDLE CONTAMINATED GLOVES CAREFULLY ACCORDING TO RELEVANT LAWS AND REGULATIONS AND EFFECTIVE LABORATORY RULES AND PROCEDURES.

PART 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	VISCOUS LIQUID
COLOR:	COLORLESS
ODOR:	CHARACTERISTIC ODOR
ODOR THRESHOLD:	NOT APPLICABLE
MOLECULAR WEIGHT:	NOT APPLICABLE
MOLECULAR FORMULA:	NOT APPLICABLE
MOLAR MASS:	NOT APPLICABLE
PH:	NOT APPLICABLE
DENSITY:	NOT APPLICABLE
MELTING POINT/RANGE (C)	NOT APPLICABLE
BOILING POINT:	NOT APPLICABLE
SOLIDIFICATION POINT:	NOT APPLICABLE
FLASH POINT:	NOT APPLICABLE
AUTO-IGNITION TEMP:	NOT APPLICABLE
IGNITION TEMP:	NOT APPLICABLE
FLAMMABILITY:	NOT APPLICABLE
UPPER/LOWER FLAMMABILITY OR EXPLOSION LIMIT:	NOT APPLICABLE
DECOMPOSITION TEMP.:	NOT APPLICABLE
RELATIVE DENSITY:	NOT APPLICABLE
VOLUME DENSITY:	NOT APPLICABLE
SOLUBILITY:	NOT APPLICABLE
VAPOR PRESSURE:	NOT APPLICABLE
VAPOR DENSITY:	NOT APPLICABLE
VOLATILIZATION RATE:	NOT APPLICABLE
VISCOSITY:	NOT APPLICABLE
SOLID CONTENT:	NOT APPLICABLE

PART 10 – STABILITY AND REACTIVITY

STABILITY:	THE PRODUCT IS STABLE WHEN STORED AND USED UNDER NORMAL AMBIENT TEMPERATURES
REACTION:	NON REACTIVE UNDER NORMAL AMBIENT TEMPERATURES.
CONDITIONS TO BE AVOIDED:	HEAT, FLAME, SPARK
INCOMPATIBILITY:	STRONG OXIDANT AGENTS.
POSSIBILITY OF DANGEROUS REACTIONS:	IN CASE OF FIRE, WILL DECOMPOSE INTO HARMFUL SUBSTANCES – CARBON OXIDE
HAZARDOUS DECOMPOSITION PRODUCTS:	NO DATA AVAILABLE

PART 11 – TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

ORAL:

BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET.

DERMAL:

BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET.

INHALATION:

BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET.

CAS NO.	ROUTE OF EXPOSURE	TYPE OF TEST	SPECIES OBSERVED	DOSE
64-17-5	ORAL	LD50	RAT	7060mg/kg
102-71-6	ORAL DERMAL	LD50 LD50	RAT RABBIT	5530mg/kg >22500mg/kg

SKIN

CORROSION/IRRITATION:

BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET.

SERIOUS EYE DAMAGE/IRRITATION:

CATEGORY 2

RESPIRATORY OR SKIN SENSITIZATION:

BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET.

GERM CELL MUTAGENICITY:

BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET.

CARCINOGENICITY:

BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET.

REPRODUCTIVE TOXICITY:

BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET.

STOT-SINGLE EXPOSURE:

BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET.

STOT-REPEATED EXPOSURE:

BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET.

ASPIRATION HAZARD:

BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET.

PART 12 – ECOLOGICAL INFORMATION

AQUATIC TOXICITY:

CAS-No.

64-17-5

**LC50 – 14200mg/L, 96h, Pimephales promelas
EC50 – 9268mg/L, 48h, Water Flea
EC50 – 275mg/L, 72h, Chlorella vulgaris**

MOBILITY IN SOIL: LOG POW

CAS No.

64-17-5

-0.32

PART 13 – DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

RECOMMENDATIONS – WASTE FROM RESIDUE/UNUSED PRODUCT

FOLLOW ALL LOCAL , STATE, AND FEDERAL REGULATIONS FOR DISPOSAL OF WASTE CHEMICALS

RECOMMENDATIONS – CONTAMINATED PACKAGING

FOLLOW ALL LOCAL , STATE, AND FEDERAL REGULATIONS FOR DISPOSAL OF WASTE CHEMICALS

PART 14 – TRANSPORTATION INFORMATION

UN-NUMBER

ADN/ADR/RID UN1170

IMDG/IMO UN1170

IATA/ICAO UN1170

UN PROPER SHIPPING NAME

ADN/ADR/RID ETHANOL SOLUTION

IMDG/IMO ETHANOL SOLUTION

IATA/ICAO ETHANOL SOLUTION

TRANSPORT HAZARD CLASSES

AND/ADR/RID CLASS 3

IMDH/IMO CLASS 3

IATA/ICO CLASS 3

PACKAGING GROUP

AND/ADR/RID II

IMDG/IMO II

IATA/ICAO II

ENVIROMENTAL HAZARDS

MARINE POLLUTANT NO

SPECIAL PRECAUTIONS FOR USER

FLAMMABLE LIQUID

TRANSPORT IN BULK ACCORING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

NOT APPLICABLE, PACKAGE GOODS

EMS NUMBER

F-E, S-D

TRANSPORT LABELS & SIGNS



PART 15 – REGULATORY INFORMATION

EU REGULATIONS

DIRECTIVE 2009/104/EC – USE OF WORK EQUIPMENT

DIRECTIVE 98/24/EC – RISKS RELATED TO CHEMICAL AGENTS AT WORK

DIRECTIVE 94/33/EC – YOUNG WORKERS

DIRECTIVE 92/85/EEC – PREGNANT WORKERS

DIRECTIVE 89/656/EEC – USE OF PERSONAL PROTECTIVE EQUIPMENT

DIRECTIVE 89/654/EEC – WORKPLACE REQUIREMENTS

NATIONAL REGULATIONS

SVHC CANDIDATE LIST OF REACH REGULATION ANNEX XIV AUTHORISATION

NONE OF THE INGREDIENTS LISTED

REACH REGULATION ANNEX VXII RESTRICTION

NONE OF THE INGREDIENTS LISTED

REACH REGULATION ANNEX XIV AUTHORIZATION LIST

NONE OF THE INGREDIENTS LISTED

CHEMICAL SAFETY ASSESMENT

A CHEMICAL SAFETY ASSESMENT HAS NOT BEEN CARRIED OUT

PART 16 – OTHER INFORMATION

ABBREVIATIONS AND ACRONYMS

GHS	GLOBALY HARMOIZED SYSTEMD OF CLASSIFICATION AND LABELLING OF CHEMICALS
CLP	CLASSIFICATION, LABELLING AND PACKAGING
REACH	REGISTRATION, EVALUATION, AITHORISATION AND RESTRICTION OF CHEMICALS
CAS	CHEMICAL ABSTRACTS SERVICE
EC No.	EUROPEAN COMMUNITY NUMBER
AND/ADR/RID	EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS/EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD/REGULATION FOR RAIL INTERNATIONAL TRANSPORTATION OF DANGEROUS GOODS
IMDG/IMO	INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS/INTERNATIONAL MARITIME ORGANIZATION
IATA/ICAO	INTERNATIONAL AIR TRANSPORT ASSOCIATION/INTERNATIONAL CIVIL AVIATION ORGANIZATION
LC50	LEATHAL CONCENTRATION, 50 PERCENT
LD50	LEATHAL DOSE, 50 PERCENT
EC50	50% EFFECTIVE CONCENTRATION
BCF	BIOCONCENTRATION FACTOR
NOEC	NO OBSERVED EFFECT CONCENTRATION
LOEC	LOWEST OBSERVED EFFECT CONCENTRATION
OECD	ORGANISATION FOR ECONOMIC COOPERATION AND DEVELOPMENT
IARC	INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
STEL	SHORT ERM EXPOSURE LIMIT
STEL-C	SHORT TERM EXPOSURE LIMIT – CEILING VALUE

TWA	TIME-WEIGHTED AVERAGE
MARPOL	INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM SHIPS
PBT	PERSISTENT, BIOACCUMULATIVE, TOXIC
VPvB	VERY PERSISTENT, VERY BIOACCUMULATIVE
POW	PARTITION COEFFICIENT OCTANOL: WATER

FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3

H225	HIGHLY FLAMMABLE LIQUID AND VAPOUR
H319	CAUSES SERIOUS EYE IRRITATION

TRAINING ADVICE

CHEMICAL HAZARD AWARENESS TRAINING, INCORPORATION LABELLING, SAFETY DATA SHEETS, PERSONAL PROTECTIVE EQUIPMENT, AND HYGIENE. USE OF PERSONAL PROTECTIVE EQUIPMENT, COVERING APPROPRIATE SELECTION, COMPATIBILITY, BREAKTHROUGH THRESHOLDS, CARE, MAINTENANCE, FIT AND STANDARDS. FIRST AID FOR CHEMICAL EXPOSURE, INCLUDING THE USE OF EYE WASH AND SAFETY SHOWERS. FIRE PREVENTION AND FIGHTING, IDENTIFYING HAZARDS AND RISKS, STATIC ELECTRICITY, EXPLOSIVE ATMOSPHERES CAUSED BY VAPOURS AND DUSTS. CHEMICAL INCIDENT RESPONSE TRAINING.

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