



# Anhui Jinhe Industrial Co., Ltd

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## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) NO. 1907/2006

VERSION 5.2 REVISION DATE 21.05.2014

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GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 PRODUCT IDENTIFIERS

PRODUCT NAME : MALTOL

PRODUCT NUMBER :

BRAND : JINGDA

REACH NO. : A REGISTRATION NUMBER IS NOT AVAILABLE FOR THIS SUBSTANCE AS THE SUBSTANCE

OR ITS USES ARE EXEMPTED FROM REGISTRATION, THE ANNUAL TONNAGE DOES NOT REQUIRE A REGISTRATION OR THE REGISTRATION IS ENVISAGED FOR A LATER REGISTRATION DEADLINE.

CAS-NO. : 118-71-8

Assay: Maltol  $\geq 99.5\%$ , Water  $\leq 0.5\%$

#### 1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

IDENTIFIED USES : LABORATORY CHEMICALS, MANUFACTURE OF SUBSTANCES

#### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

COMPANY : ANHUI JINHE INDUSTRIAL CO.,LTD

127 EAST STREET, LAIAN COUNTY, ANHUI, P.R.CHINA

TELEPHONE : +86 550 5619090

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#### 1.4 EMERGENCY TELEPHONE NUMBER

EMERGENCY PHONE # : +86 550 5623638

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008

ACUTE TOXICITY, ORAL (CATEGORY 4), H302

SKIN IRRITATION (CATEGORY 2), H315

EYE IRRITATION (CATEGORY 2), H319



SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (CATEGORY 3), H335  
FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE  
SECTION 16.

**CLASSIFICATION ACCORDING TO EU DIRECTIVES 67/548/EEC OR 1999/45/EC**

XN HARMFUL R22, R36/37/38

FOR THE FULL TEXT OF THE R-PHRASES MENTIONED IN THIS SECTION, SEE SECTION  
16.

**2.2 LABEL ELEMENTS**

**LABELLING ACCORDING REGULATION (EC) NO 1272/2008**

PICTOGRAM



SIGNAL WORD                      WARNING

Hazard statement(s)

H302                      HARMFUL IF SWALLOWED.  
H315                      CAUSES SKIN IRRITATION.  
H319                      CAUSES SERIOUS EYE IRRITATION.  
H335                      MAY CAUSE RESPIRATORY IRRITATION.

Precautionary statement(s)

H319                      Causes serious eye irritation.  
H335                      May cause respiratory irritation.

Precautionary statement(s)

P261                      Avoid breathing dust.  
P305 + P351 + P338   IF IN EYES: Rinse cautiously with water for several minutes. Remove  
contact lenses, if present and easy to do. Continue rinsing.

**2.3 OTHER HAZARDS - NONE**

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 SUBSTANCES**

SYNONYMS : 3-HYDROXY-2-METHYL-4-PYRONE

MALTOL

FORMULA : C<sub>6</sub>H<sub>6</sub>O<sub>3</sub>

MOLECULAR WEIGHT: 126,11 G/MOL

CAS-NO. : 118-71-8

EC-NO. : 204-271-8

**HAZARDOUS INGREDIENTS ACCORDING TO REGULATION (EC) NO 1272/2008**

COMPONENT CLASSIFICATION CONCENTRATION

**3-HYDROXY-2-METHYL-1,4-PYRONE**

CAS-NO.118-71-8

EC-NO.204-271-8

ACUTE TOX. 4; SKIN IRRIT. 2; EYE

IRRIT. 2; STOT SE 3; H302,

H315, H319, H335

<= 100 %

**HAZARDOUS INGREDIENTS ACCORDING TO DIRECTIVE 1999/45/EC**

COMPONENT CLASSIFICATION CONCENTRATION



### **3-HYDROXY-2-METHYL-1,4-PYRONE**

CAS-NO.118-71-8

EC-NO.204-271-8

XN, R22 - R36/37/38 <= 100 %

FOR THE FULL TEXT OF THE H-STATEMENTS AND R-PHRASES MENTIONED IN THIS SECTION, SEE SECTION 16

#### **SECTION 4: FIRST AID MEASURES**

##### **4.1 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**

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER. CONSULT A PHYSICIAN.

##### **4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

THE MOST IMPORTANT KNOWN SYMPTOMS AND EFFECTS ARE DESCRIBED IN THE LABELLING (SEE SECTION 2.2) AND/OR IN SECTION 11

##### **4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

NO DATA AVAILABLE

#### **SECTION 5: FIREFIGHTING MEASURES**

##### **5.1 EXTINGUISHING MEDIA**

###### **SUITABLE EXTINGUISHING MEDIA**

USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY CHEMICAL OR CARBON DIOXIDE.

##### **5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

CARBON OXIDES

##### **5.3 ADVICE FOR FIREFIGHTERS**

WEAR SELF CONTAINED BREATHING APPARATUS FOR FIRE FIGHTING IF NECESSARY.

##### **5.4 FURTHER INFORMATION**

NO DATA AVAILABLE

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

##### **6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

USE PERSONAL PROTECTIVE EQUIPMENT. AVOID DUST FORMATION. AVOID BREATHING VAPOURS, MIST OR GAS. ENSURE





ADEQUATE VENTILATION. EVACUATE PERSONNEL TO SAFE AREAS. AVOID BREATHING DUST.

FOR PERSONAL PROTECTION SEE SECTION 8.

## **6.2 ENVIRONMENTAL PRECAUTIONS**

DO NOT LET PRODUCT ENTER DRAINS.

## **6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP**

PICK UP AND ARRANGE DISPOSAL WITHOUT CREATING DUST. SWEEP UP AND SHOVEL.

KEEP IN SUITABLE, CLOSED

CONTAINERS FOR DISPOSAL.

## **6.4 REFERENCE TO OTHER SECTIONS**

FOR DISPOSAL SEE SECTION 13.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1 PRECAUTIONS FOR SAFE HANDLING**

AVOID CONTACT WITH SKIN AND EYES. AVOID FORMATION OF DUST AND AEROSOLS.

PROVIDE APPROPRIATE EXHAUST VENTILATION AT PLACES WHERE DUST IS FORMED.

FOR PRECAUTIONS SEE SECTION 2.2.

### **7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

STORE IN COOL PLACE. KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE.

### **7.3 SPECIFIC END USE(S)**

APART FROM THE USES MENTIONED IN SECTION 1.2 NO OTHER SPECIFIC USES ARE STIPULATED

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1 CONTROL PARAMETERS**

#### **COMPONENTS WITH WORKPLACE CONTROL PARAMETERS**

### **8.2 EXPOSURE CONTROLS**

#### **APPROPRIATE 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**

##### **EYE/FACE PROTECTION**

SAFETY GLASSES WITH SIDE-SHIELDS CONFORMING TO EN166 USE EQUIPMENT FOR

EYE PROTECTION TESTED

AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR EN 166(EU).

##### **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.





THE SELECTED PROTECTIVE GLOVES HAVE TO SATISFY THE SPECIFICATIONS OF EU DIRECTIVE 89/686/EEC AND

THE STANDARD EN 374 DERIVED FROM IT.

FULL CONTACT

MATERIAL: NITRILE RUBBER

MINIMUM LAYER THICKNESS: 0,11 MM

BREAK THROUGH TIME: 480 MIN

MATERIAL TESTED:DERMATRIL® (KCL 740 / ALDRICH Z677272, SIZE M)

SPLASH CONTACT

MATERIAL: NITRILE RUBBER

MINIMUM LAYER THICKNESS: 0,11 MM

BREAK THROUGH TIME: 480 MIN

MATERIAL TESTED:DERMATRIL® (KCL 740 / ALDRICH Z677272, SIZE M)

DATA SOURCE: KCL GMBH, D-36124 EICHENZELL, PHONE +49 (0)6659 87300, E-MAIL:

SALES@KCL.DE,

TEST METHOD: EN374

IF USED IN SOLUTION, OR MIXED WITH OTHER SUBSTANCES, AND UNDER CONDITIONS WHICH DIFFER FROM EN 374,

CONTACT THE SUPPLIER OF THE CE APPROVED GLOVES. THIS RECOMMENDATION IS ADVISORY ONLY AND MUST

BE EVALUATED BY AN INDUSTRIAL HYGIENIST AND SAFETY OFFICER FAMILIAR WITH THE SPECIFIC SITUATION OF

ANTICIPATED USE BY OUR CUSTOMERS. IT SHOULD NOT BE CONSTRUED AS OFFERING AN APPROVAL FOR ANY

SPECIFIC USE SCENARIO.

### **BODY PROTECTION**

COMPLETE SUIT PROTECTING AGAINST CHEMICALS, THE TYPE OF PROTECTIVE EQUIPMENT MUST BE SELECTED

ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS SUBSTANCE AT THE SPECIFIC WORKPLACE.

### **RESPIRATORY PROTECTION**

FOR NUISANCE EXPOSURES USE TYPE P95 (US) OR TYPE P1 (EU EN 143) PARTICLE RESPIRATOR.FOR HIGHER

LEVEL PROTECTION USE TYPE OV/AG/P99 (US) OR TYPE ABEK-P2 (EU EN 143)

RESPIRATOR CARTRIDGES.

USE RESPIRATORS AND COMPONENTS TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS

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

### **CONTROL OF ENVIRONMENTAL EXPOSURE**

DO NOT LET PRODUCT ENTER DRAINS.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

A) APPEARANCE FORM: CYSTALLINE POWDER

COLOUR: WHITE TO PALE YELLOW





B) ODOUR : FRUITY  
C) ODOUR THRESHOLD NO DATA AVAILABLE  
D) PH NO DATA AVAILABLE  
E) MELTING POINT/FREEZING POINT  
MELTING POINT/RANGE: 161 - 163 °C  
F) INITIAL BOILING POINT AND  
BOILING RANGE 284,7 °C AT 1.013 HPA  
G) FLASH POINT 110 °C MIN  
H) EVAPOURATION RATE NO DATA AVAILABLE  
I) FLAMMABILITY (SOLID, GAS) NO DATA AVAILABLE  
J) UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS NO DATA AVAILABLE  
K) VAPOUR PRESSURE NO DATA AVAILABLE  
L) VAPOUR DENSITY NO DATA AVAILABLE  
M) RELATIVE DENSITY NO DATA AVAILABLE  
N) WATER SOLUBILITY INSOLUBLE, ORGANIC SOLVENTS 1.2G/100ML SOLUBLE  
O) PARTITION COEFFICIENT: NOCTANOL/WATER NO DATA AVAILABLE  
P) AUTO-IGNITION TEMPERATURE NO DATA AVAILABLE Q)  
DECOMPOSITION TEMPERATURE NO DATA AVAILABLE R)  
VISCOSITY NO DATA AVAILABLE  
S) EXPLOSIVE PROPERTIES NO DATA AVAILABLE  
T) OXIDIZING PROPERTIES NO DATA AVAILABLE  
U) IGNITION TEMPERATURE: 740 °C

## **9.2 OTHER SAFETY INFORMATION**

SOLUBILITY IN OTHER SOLVENTS

METHANOL 50 G/L - SOLUBLE

## **SECTION 10: STABILITY AND REACTIVITY**

**10.1 REACTIVITY** NO DATA AVAILABLE

**10.2 CHEMICAL STABILITY** STABLE UNDER RECOMMENDED STORAGE CONDITIONS.

**10.3 POSSIBILITY OF HAZARDOUS REACTIONS** NO DATA AVAILABLE

**10.4 CONDITIONS TO AVOID** NO DATA AVAILABLE

**10.5 INCOMPATIBLE MATERIALS** STRONG OXIDIZING AGENTS

**10.6 HAZARDOUS DECOMPOSITION PRODUCTS** OTHER DECOMPOSITION PRODUCTS -  
NO DATA AVAILABLE

IN THE EVENT OF FIRE: SEE SECTION 5

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1 INFORMATION ON TOXICOLOGICAL EFFECTS**

#### **ACUTE TOXICITY**

LD50 ORAL - RAT - 1.410 MG/KG

LD50 ORAL - MOUSE - 550 MG/KG

LD50 ORAL - RABBIT - 1.620 MG/KG

LD50 SUBCUTANEOUS - MOUSE - 820 MG/KG

#### **SKIN CORROSION/IRRITATION**

SKIN — RABBIT RESULT: IRRITATING TO SKIN. - 24 H

**SERIOUS EYE DAMAGE/EYE IRRITATION** NO DATA AVAILABLE





**RESPIRATORY OR SKIN SENSITIZATION** NO DATA AVAILABLE

**GERM CELL MUTAGENICITY** NO DATA AVAILABLE

**CARCINOGENICITY**

IARC: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS

PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY IARC.

**REPRODUCTIVE TOXICITY** NO DATA AVAILABLE

**SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE** INHALATION - MAY CAUSE RESPIRATORY IRRITATION.

**SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE** NO DATA AVAILABLE

**ASPIRATION HAZARD** NO DATA AVAILABLE

**ADDITIONAL INFORMATION**

RTECS: NOT AVAILABLE

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

## **SECTION 12: ECOLOGICAL INFORMATION**

**12.1 TOXICITY** NO DATA AVAILABLE

**12.2 PERSISTENCE AND DEGRADABILITY** NO DATA AVAILABLE

**12.3 BIOACCUMULATIVE POTENTIAL** NO DATA AVAILABLE

**12.4 MOBILITY IN SOIL** NO DATA AVAILABLE

**12.5 RESULTS OF PBT AND VPVB ASSESSMENT**

PBT/VPVB ASSESSMENT NOT AVAILABLE AS CHEMICAL SAFETY ASSESSMENT NOT REQUIRED/NOT CONDUCTED

**12.6 OTHER ADVERSE EFFECTS** NO DATA AVAILABLE

## **SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 WASTE TREATMENT METHODS**

**PRODUCT**

DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. OFFER SURPLUS AND NON-RECYCLABLE SOLUTIONS TO A LICENSED DISPOSAL COMPANY.

**CONTAMINATED PACKAGING** DISPOSE

OF AS UNUSED PRODUCT. **SECTION 14:**

**TRANSPORT INFORMATION**

**14.1 UN NUMBER** ADR/RID: - IMDG: - IATA: -

**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: - IMDG: - IATA: -

**14.4 PACKAGING GROUP** ADR/RID: - IMDG: - IATA: -

**14.5 ENVIRONMENTAL HAZARDS** ADR/RID: NO IMDG MARINE POLLUTANT: NO IATA: NO





**14.6 SPECIAL PRECAUTIONS FOR USER NO DATA AVAILABLE**

**SECTION 15: REGULATORY INFORMATION**

THIS SAFETY DATASHEET COMPLIES WITH THE REQUIREMENTS OF REGULATION (EC) NO. 1907/2006.

**15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION  
SPECIFIC FOR THE SUBSTANCE OR MIXTURE**

NO DATA AVAILABLE

**15.2 CHEMICAL SAFETY ASSESSMENT**

FOR THIS PRODUCT A CHEMICAL SAFETY ASSESSMENT WAS NOT CARRIED OUT

**SECTION 16: OTHER INFORMATION**

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

ACUTE TOX. ACUTE TOXICITY

EYE IRRIT. EYE IRRITATION

H302 HARMFUL IF SWALLOWED.

H315 CAUSES SKIN IRRITATION.

H319 CAUSES SERIOUS EYE IRRITATION.

H335 MAY CAUSE RESPIRATORY IRRITATION.

SKIN IRRIT. SKIN IRRITATION

**FULL TEXT OF R-PHRASES REFERRED TO UNDER SECTIONS 2 AND 3**

XN HARMFUL

R22 HARMFUL IF SWALLOWED.

R36/37/38 IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

**FURTHER INFORMATION**

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Quality Manager

2022. 03. 25